ORDER NO. ITD0310049A3

Service Manual

High Difinition Wide Plasma Display



TH-42PHD6AY

GPH6D

Please file and use this manual together with the service manual for Model No.TH-42PHD6UY, Order No.ITD0308027C0.

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1. Difference point

1.1. Mechanical Replacement Parts List

Ref. No.	Part No.		Parts Name & Description	Remark
	TH-42PHD6UY	TH-42PHD6AY		
	K2CG3DH00025	K2CK3DH00017	AC CORD	CHANGED
	TPCB40402	TPCB34120	CARTON BOX	CHANGED
	TPDA0675	-----	CUSHION(UPPER RIGHT/LEFT)	DELTED
	TPDA0676	-----	CUSHION(UPPER CENTER)	DELTED
	TPDA0794	-----	CUSHION(BOTTOM RIGHT/LEFT	DELTED
	TPDF0905	-----	PAD(UPPER)	DELTED
	TPGA2141	-----	CARTON BOX	DELTED
	TPGA2150	-----	BOTTOM CARTON	DELTED
	TQBC0570	TQBC0582	INSTRUCTION BOOK(ENGLISH)	CHANGED
	TQBC0571	-----	INSTRUCTION BOOK(FRENCH)	DELTED
	TQBC0572	-----	INSTRUCTION BOOK(SPANISH)	DELTED
	TTUA0675	TTUA0730	REAR COVER	CHANGED

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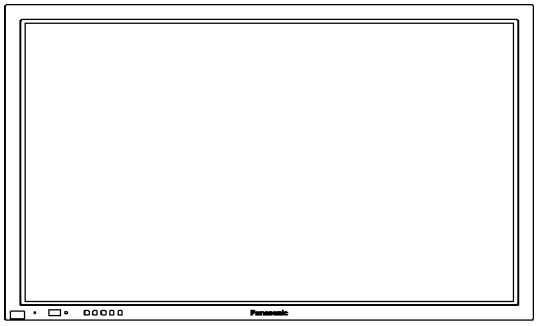
D10 Canada: B07

Service Manual

High Definition Plasma Display

TH-42PHW6EX / TH-42PHD6EX / TH-42PHD6BX / TH-42PHD6UY

GPH6D Chassis



SPECIFICATIONS

Specifications

Power Source:	AC120V 50/60Hz (UY version)
	AC220-240V 50/60Hz
	(Except UY version model)
Power Consumption:	265 W
	Save off 1.6 W, Save on 0.9 W (stand-by condition)
	(UY version)
	Save off 1.9 W, Save on 1.1 W (stand-by condition)
	(Except UY version model)
	0.2 W (Power off condition)
	(UY version model)
	0.4 W (Power off condition)
	(Except UY version model)
Plasma Display panel:	Drive method AC type
	16:9 aspect ratio
Contrast Ratio	3000:1
Screen size:	920 mm (W) × 518 mm (H)
	1,056 mm (diagonal)
	No. of pixels
	786,432 (1,024 (W) × 768 (H))
	[3,072 × 768 dots]

Operating condition:	
Temperature	**34 °F - 104 °F (0 °C - 40 °C)**
Humidity	**20 % - 80 %**
	Horizontal scanning frequency 15 - 110kHz
	Vertical scanning frequency 48 - 120Hz
Connection terminals:	
AV	
Video in	**1.0 Vp-p (75-ohm)**
S-VIDEO IN / (MINI DIN 4PIN)	**Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm)**
AUDIO IN / (RCA PIN JACK × 2)	**0.5 Vrms (high impedance)**
COMPONENT/RGB	
Y/G	**1.0 Vp-p/composite (75-ohm)**
	0.7 Vp-p/non-composite (75-ohm)
PB /B	**0.7 Vp-p (75-ohm)**
PR /R	**0.7 Vp-p (75-ohm)**
HD	**1.0 - 5.0 Vp-p (high impedance)**
VD	**1.0 - 5.0 Vp-p (high impedance)**
AUDIO IN (RCA PIN JACK×2)	**0.5 Vrms (high impedance)**
PC	
(HIGH-DENSITY D-SUB15PIN)	**R,G,B/0.7 Vp-p (75-ohm)**
	HD, VD/1.0 - 5.0 Vp-p (high impedance)
AUDIO IN (M3 JACK)	**0.5Vrms (high impedance)**
SERIAL	
EXTERNAL CONTROL TERMINAL (D-SUB9PIN)	**RS-232C COMPATIBLE**
SPEAKERS (External speakers) (6 Ω)	**16W [8W+8W] (10% THD)**
Dimensions (W×H×D):	**1,020 mm × 610 mm 89 mm**
Weight (Mass)	**approx. 29.5 kg net (main unit only)**
	approx. 33.7 kg net (with speakers)

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1. Applicable signals

VIDEO input

	signal name	horizontal frequency(kHz)	vertital frequency(Hz)
1	NTSC	15.734	59.95
2	PAL	15.625	50
3	PAL60	15.734	59.95
4	SECAM	15.625	50
5	Modified NTSC	15.734	59.95

∗ Mark:
By installing the optional Terminal Board.

Applicable input signals for PC Input (D-sub 15P) (* Mark)

	signal name	horizontal frequency(kHz)	vertital frequency(Hz)	RGB	PC	when Multi Screen and Digital Zoom
1	525(480)/60i	15.73	59.94	∗	∗	∗
2	525(480)/60p	31.47	59.94	∗	∗	∗
3	625(575)/50i	15.63	50.00	∗	∗	∗
4	625(575)/50p	31.25	50.00	∗	∗	∗
5	750(720)/60p	45.00	60.00	∗	∗	∗
6	750(720)/50p	37.50	50.00	∗	∗	∗
7	1,125(1,080)/60i	33.75	59.94	∗	∗	∗
8	1,125(1,080)/50i	28.13	50.00	∗	∗	∗
9	1,125(1,080)/24p	27.00	24.00	∗	∗	
10	1,125(1,080)/24sF	27.00	48.00	∗	∗	∗
11	1,250(1,080)/50i	31.25	50.00	∗	∗	∗
12	640 × 400@70 Hz	31.47	70.00		∗	∗
13	640 × 480@60 Hz	31.47	59.94		∗	∗
14	Macintosh13"(640 × 480)	35.00	66.67		∗	∗
15	640 × 480@75 Hz	37.50	75.00		∗	∗
16	852 × 480@60 Hz	31.50	60.00		∗	∗
17	800 × 600@60 Hz	37.88	60.32		∗	∗
18	800 × 600@75 Hz	46.88	75.00		∗	∗
19	800 × 600@85 Hz	53.67	85.06		∗	∗
20	Macintosh16"(832 × 624)	49.73	74.55		∗	∗
21	1,024 × 768@60 Hz	48.36	60.00		∗	∗
22	1,024 × 768@70 Hz	56.48	70.07		∗	∗
23	1,024 × 768@75 Hz	60.02	75.03		∗	∗
24	1,024 × 768@85 Hz	68.68	85.00		∗	∗
25	Macintosh21"(1,152 × 870)	68.68	75.06		∗	
26	1,280 × 1,024@60 Hz	63.98	60.02		∗	
27	1,280 × 1,024@75 Hz	79.98	75.03		∗	
28	1,280 × 1,024@85 Hz	91.15	85.02		∗	
29	1,600 × 1,200@60 Hz	75.00	60.00		∗	
30	1,0660 × 600@60 Hz	37.88	60.32		∗	∗
31	1,366 × 768@60 Hz	48.36	60.00		∗	∗

2. Safety Precautions

2.1. General Guidelines

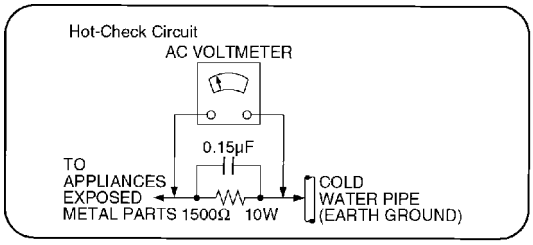
1. **When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**
3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

2.1.1. Leakage Current Cold Check

1. **Unplug the AC cord and connect a jumper between the two prongs on the plug.**
2. **Measure the resistance value, with an ohmmeter, between the**

jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to thechassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be∞.

Figure 1



2.1.2. Leakage Current Hot Check (See Figure 1 .)

1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 µ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1 .**
3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outsideof the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

3. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such

components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistorsand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparableconductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing**

together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4. About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.
In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.
The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.
This model uses Pb Free solder in it's manufacture due to environmental conservation issues.
For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.
PCBs manufactured using lead free solder will have the PbF within a leaf Symbol



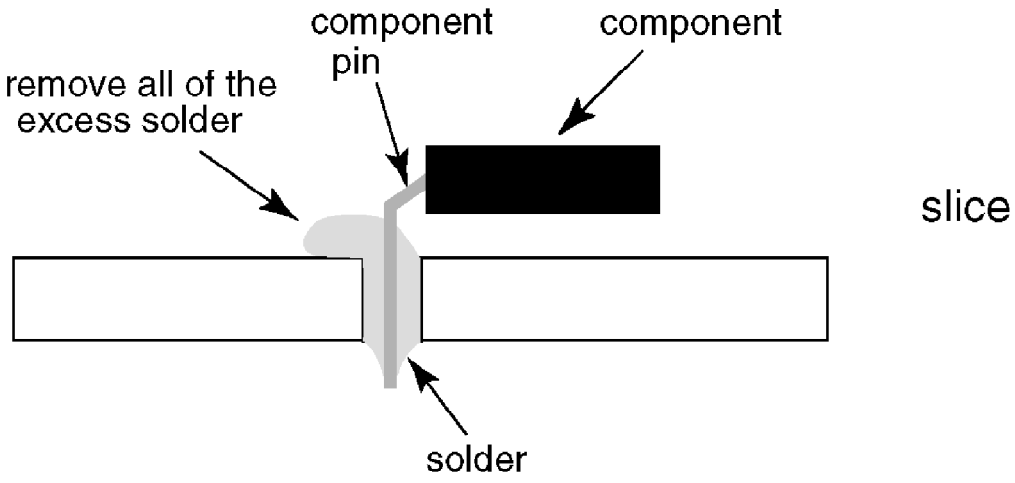
stamped on the back of PCB.

Caution

- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).

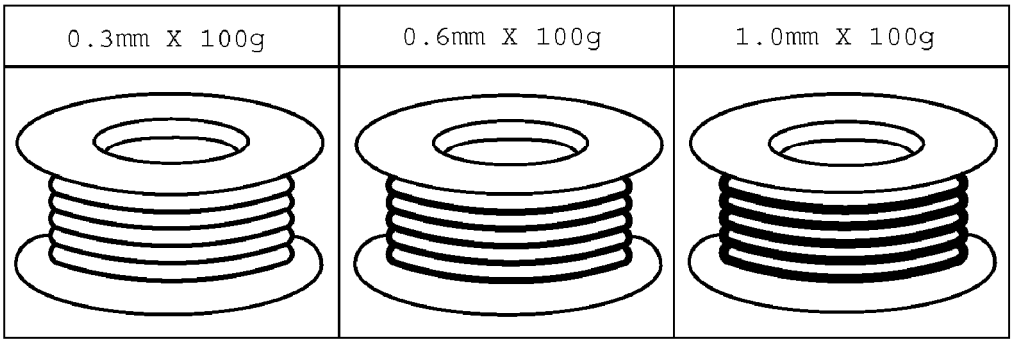
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).
If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.

- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also beused.



5. PCB Structure sheet of GPH6D chassis

Board Name	Function	Remarks
D	Digital Signal Processor	1
J	Slot Interface & SYNC processor	1
Z	Audio out, DC-DC converter	
SS	Sustain Out	1
SC	Scan out	1
SU	Sustain connection (Upper)	1
SD	Sustain connection (Lower)	1
C1	Data Drive (Upper Right)	
C2	Data Drive (Upper Left)	
C3	Data Drive (Lower Left)	
C4	Data Drive (Lower Left)	
H3	Speaker terminal	
S1	Power switch	
SS2	Sustain connection (Upper)	
SS3	Sustain connection (Lower)	
V1	Front SW. & Remote receiver	
PF	Line filter	
P	Power supply	1
HX	PC_type_Input terminal	
HY	BNC Composite/Component Video	2
HZ	BNC Component Video	3

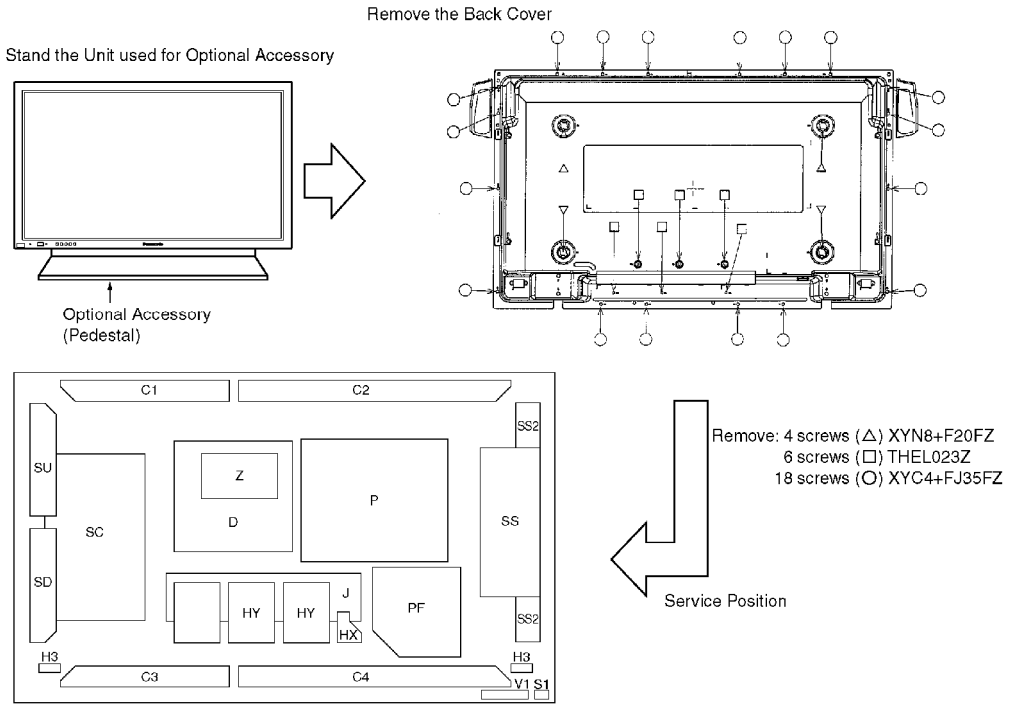
Remarks

1. Recommend PCB's for initial service for GPH6D chassis.

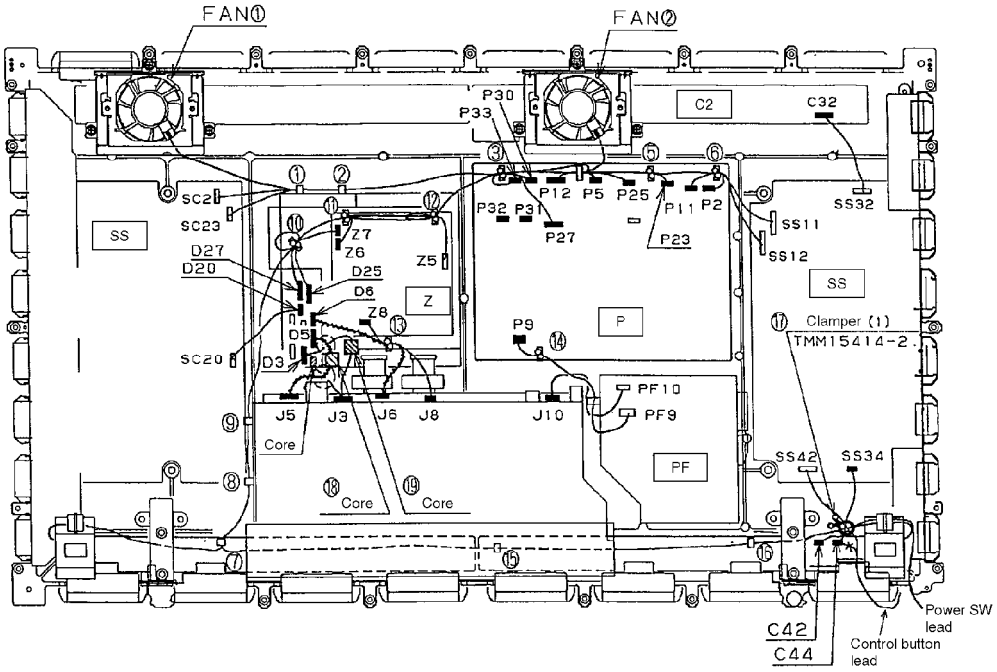
2. For System model except BX, EX version

3. For Consumer model except BX, EX version

6. Service Hint



7. Location of Lead Wiring



CON:NO — CON:NO \ CLAMPER	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
SC2 — P2	○	○	○	○	○	○														
SC23 — P23	○	○	○	○	○															
SC20 — D20																				
D27 — P27			○							◎	○	○								
D25 — P25			○	○						◎	○	○								
D3 — J3																			○	
D6 — J6													○							
Z8 — J8													○							
D5 — J5																		○		
Z5 — P5			○	○								◎								
SP (SC SIDE) — Z7							○	○	○	○										
SP (SS SIDE) — Z6							○	○	○	○	○				○	○	○			
SS12 — P12				○	○	○														
SS11 — P11						○														
SS42 — C42																	○			
SS32 — C32																				
POWER SW — SS34																	○			
CONTROL BUTTON — C44																	○			
PF9 — P9														○						
PF10 — J10																				
FAN① — P30	○	○	○																	
FAN② — P33			○	○																

◎ Wind up second times.

Connector Connection: P2, P5, P9, P11, P12, P23, P25, P27, P30, P31, P32, P33
Z6, Z7, Z8,
D3, D5, D6, D20, D25, D27
J3, J5, J6, J8, J10,
SS34,
C23, C42, C44

8. Adjustment Procedure

8.1. Driver Set-up

8.1.1. Item / Preparation

1. Input an APL 100 % white signal.

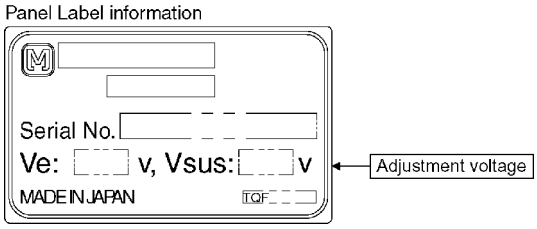
2. Set the picture controls: -
Picture mode: Normal
White balance: Cool
Aspect: 16:9

8.1.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	170V ± 2V	VR641 (P)	
Ve	TPVE (SS)	150V ± 1V	R6770 (SS)	
Vset	TPVSET (SC)	220V ± 5V	---	
Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
Vscn	TPVSCN (SC)	Vad*+118V ± 2V	---	
Vda	TPVDA (SS)	67V ± 1V	VR665 (P)	

***See the Panel label.**



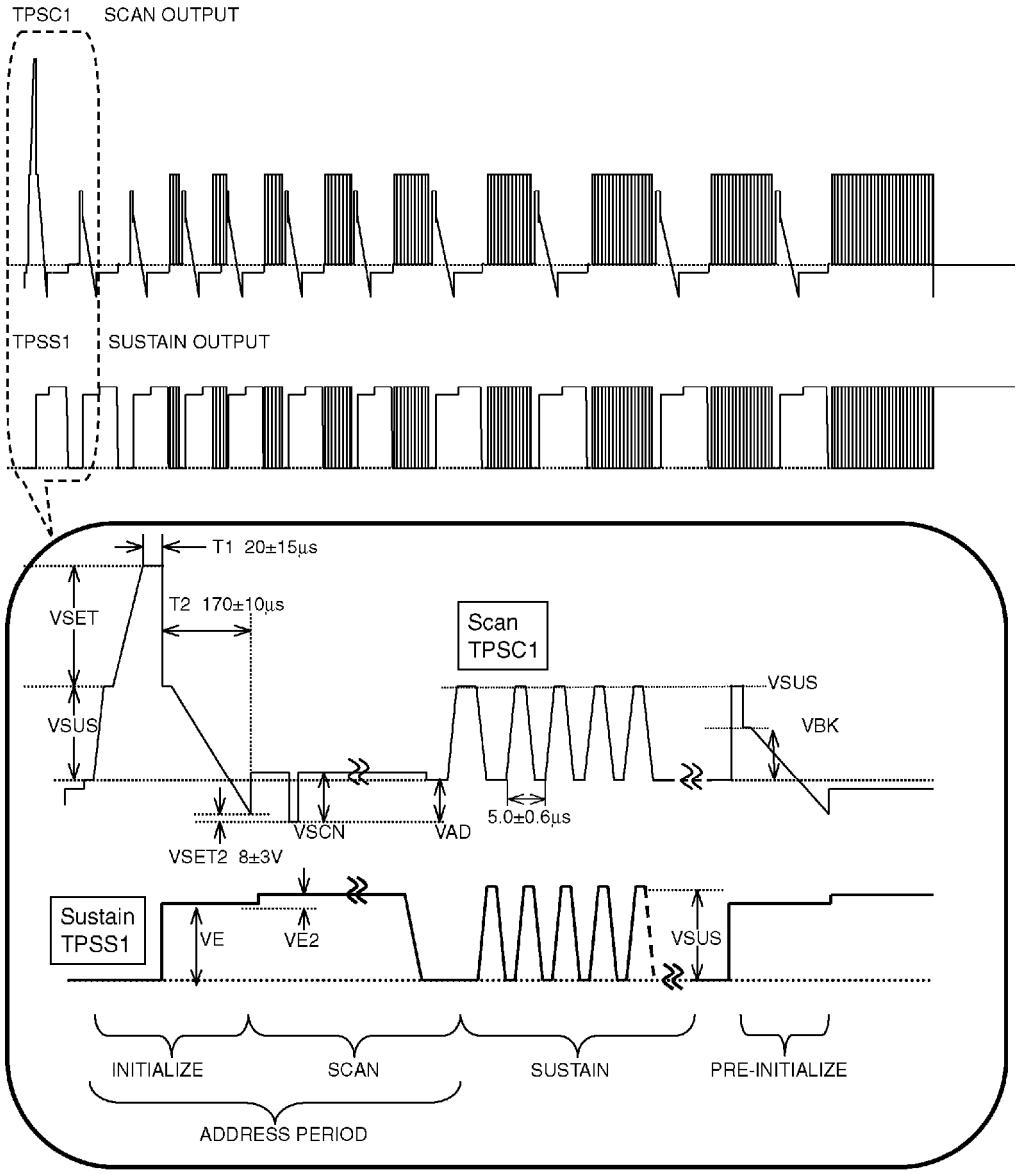
8.2. Initialization Pulse Adjust

1. Input a Cross hatch signal.

2. Set the picture controls: -
Picture mode: Normal
White balance: Cool

Adjust the indicated test point for the specified wave form.

	Test point	Volume	Level
T1	TPSC1 (SC)	---	20 ± 15 μ Sec
T2	TPSS1 (SS)	R6557 (SC)	170 ± 10 μ Sec



8.3. P.C.B. (Printed Circuit Board) exchange

8.3.1. Caution

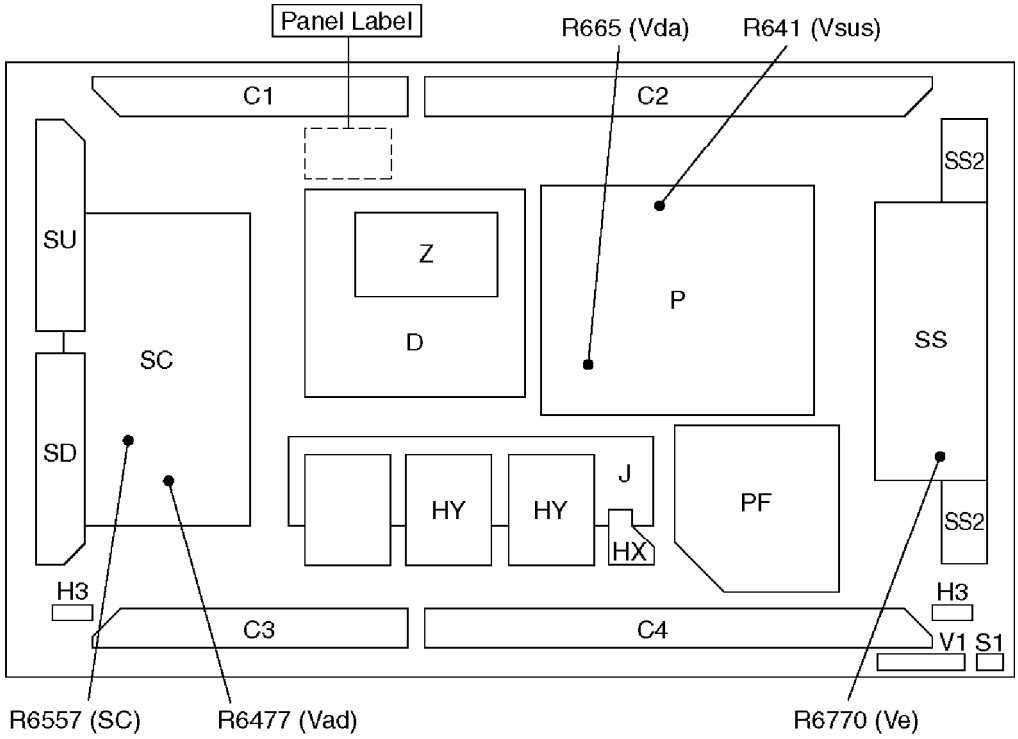
1. To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.

8.3.2. Quick adjustment after P.C.B. exchange

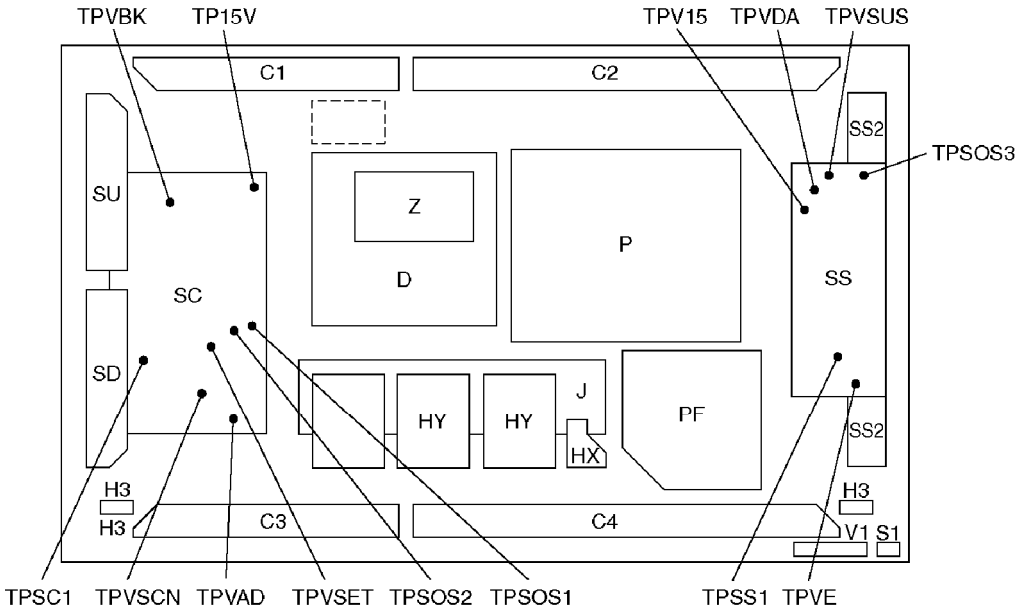
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	Vsus	TPVSUS (SS)	170V ± 2V	R641 (P)	
	Vda	TPVDA (SS)	67V ± 1V	R665 (P)	
SC Board	Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
	Vset	TPVSET (SC)	220V ± 5V	---	
	Vscn	TPVSCN (SC)	Vad + 118 ± 2V	---	
SS Board	Ve	TPVE (SS)	158V ± 1V	R6770 (SS)	
D, J Board	White blance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625i signal				

***See the Panel label.**

8.4. Adjustment Volume Location



8.5. Test Point Location



9. Service mode

9.1. CAT (computer Aided Test) mode

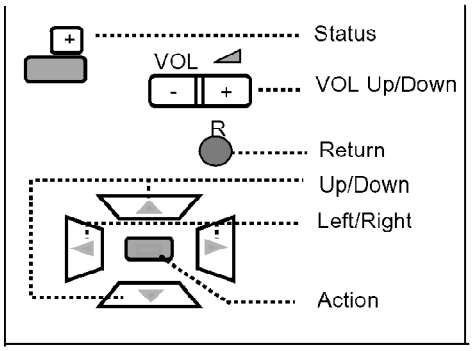
CAT mode menu

CAT Panel sys8.2

IIC Mode
CD Mode
SD Mode
MS Mode
ID Mode

Mode	Function	Access button
IIC	Service Alignment	Action
CD(Complete Diagnostics)	Software version information EEPROM edit	Mute more than 5 seconds
SD(Status Display)	MTBF parameter	Action
MS Mode	Not use	-----
ID	Not use	-----

Remote control



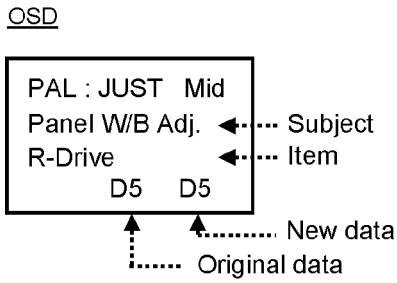
How to access the CAT mode.

Press and the hold the Volume down / - buton on the front panel of the unit and press the status button on the remote control 3 times quickly within 1 second, this will place the unit into the CAT mode.

To exit the CAT mode , access the ID mode and switch off the main power.

9.1.1. IIC mode

Select the IIC mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.



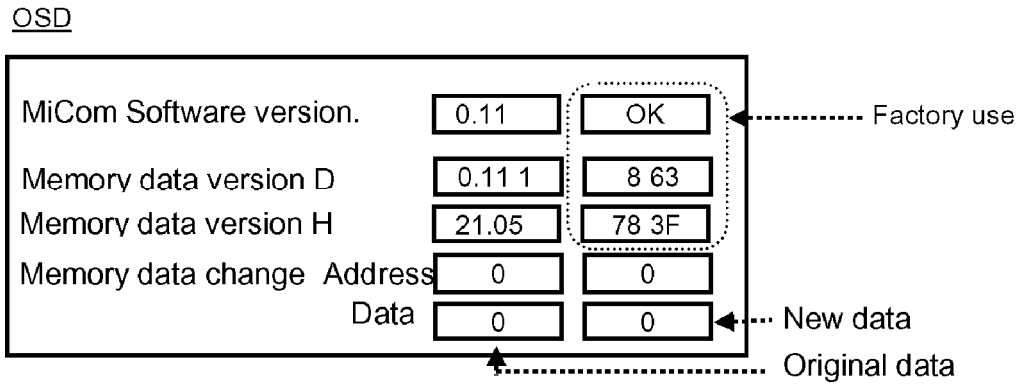
How to use the IIC mode.

1. Select the alignment **Subject** by **Up/Down buttons** on the remote control.
2 .Select the alignment **Item** by **Left/Right buttons** on the remote control.
3. Adjust **optimum setting** by **Volume Up/Down buttons** on the remote control.
4. The **data is memorized** when press the **R button** on the remote control or change the alignment Subject (or Items).

Subject and item are mentioned on page 14.
To exit the IIC mode, press the R button on the remote control.

9.1.2. CD mode

Select the CD mode by Up/Down button on the remote control at the front page of CAT mode then press the Mute button on the remote control more than 5 sec.

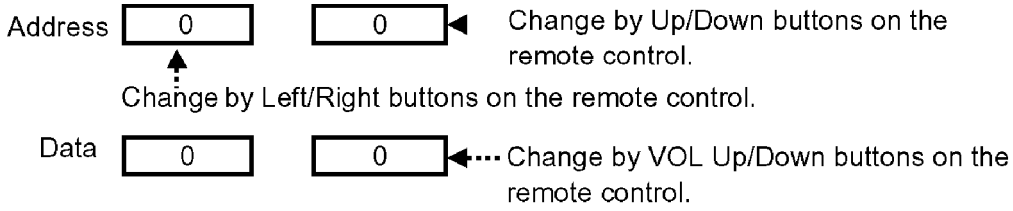


Micom software version (IC9354), this version can be upgrade by

1. replace of new version IC

2. Loading the new version software from loader tool, TZSC07036.

Memory data change

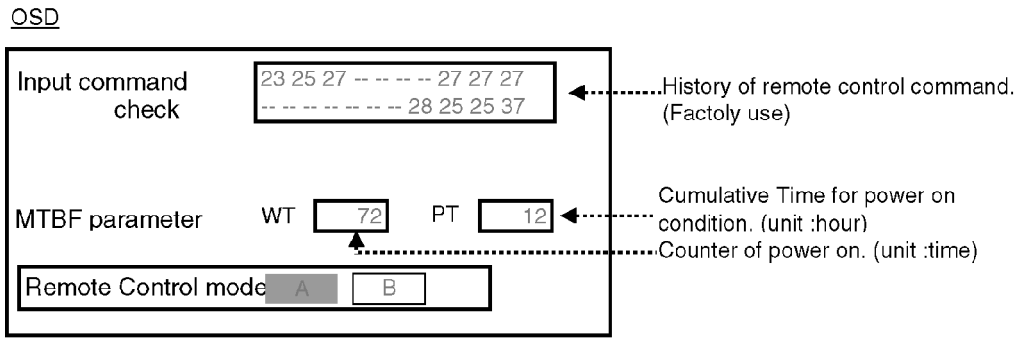


The data is memorized when switch off the main power.

To exit the CD mode, press the R button on the remote control.

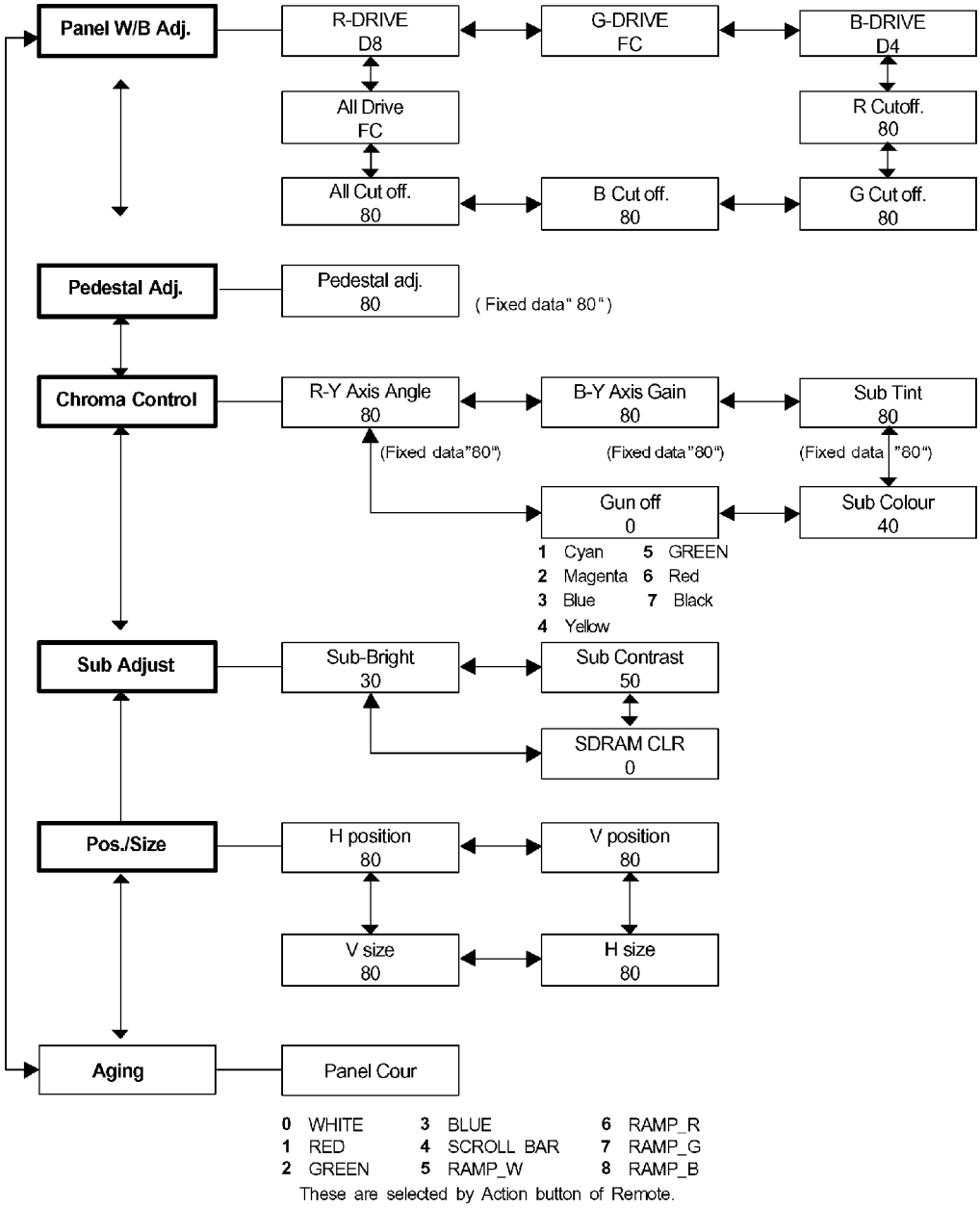
9.1.3. SD mode

Select the SD mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.



To exit the SD mode, press the R button on the remote control.

9.2. IIC mode structure (following items value is sample data.)



10. Alignment

10.1. Pedestal setting (C)

Note:
OSD is the difference between UY model and Except UY model. / Picture: Normal (Except UY)/ Standard (UY model) / White balance (Except UY)/Color Temp (UY model)

10.2. Pedestal setting (B)

Note:
OSD is the difference between UY model and Except UY model. / Picture: Normal (Except UY)/ Standard (UY model) / White balance (Except UY)/Color Temp (UY model)

10.3. NTSC panel white balance

10.4. PAL/SECAM panel white balance

10.5. PC/RGB panel white balance

10.6. HD/ 525i /525p /625I /625P panel white balance

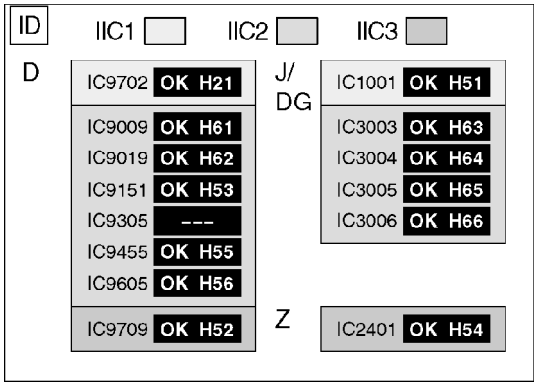
11. Trouble shooting guide

11.1. Self Check

11.1.1. Display Indication

1. **Self-check is used to automatically check the bus line controlled circuit of the Plasma display.**
2. **To get into the Self-check mode, press the volume down button on the customer controls at the front of the set, at the same time pressing the OFF-TIMER button on the remote control, and the screen will show :-**

If the CCU ports have been checked and found to be incorrect
Or not located then " - - " will appear in place of " OK "



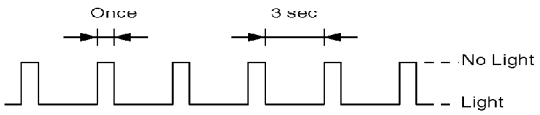
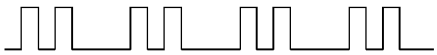
11.1.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinkes of the Power LED on the front panel of the unit.

Blinking times	Blinking timing	Contents & Check point
1		Main Micom Power
2		SCAN Driver1
3		3.3V SOS
4		5V SOS
5		Power SOS
6		FAN
7		SCAN Driver2
8		TEMP (Not used)
9		SUS Driver

3. Remarks

Above Fan function is operated during the fans are installed.

11.2. No Power

[First check point]

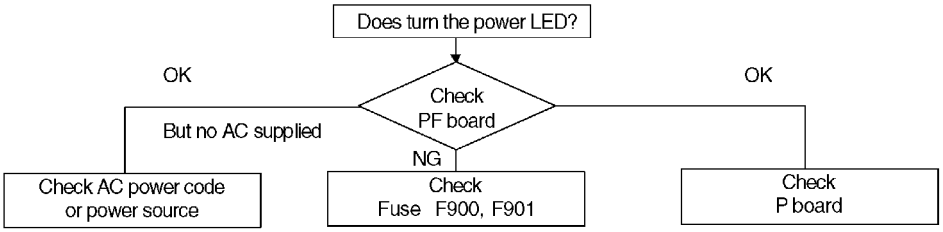
There are following 3 states of No Power indication by power LED.

1. No lit

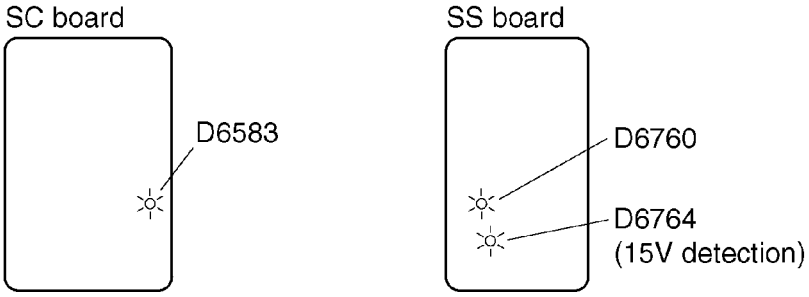
2. Green is lit then turns red blinking a few seconds later.

3. Only red is lit.

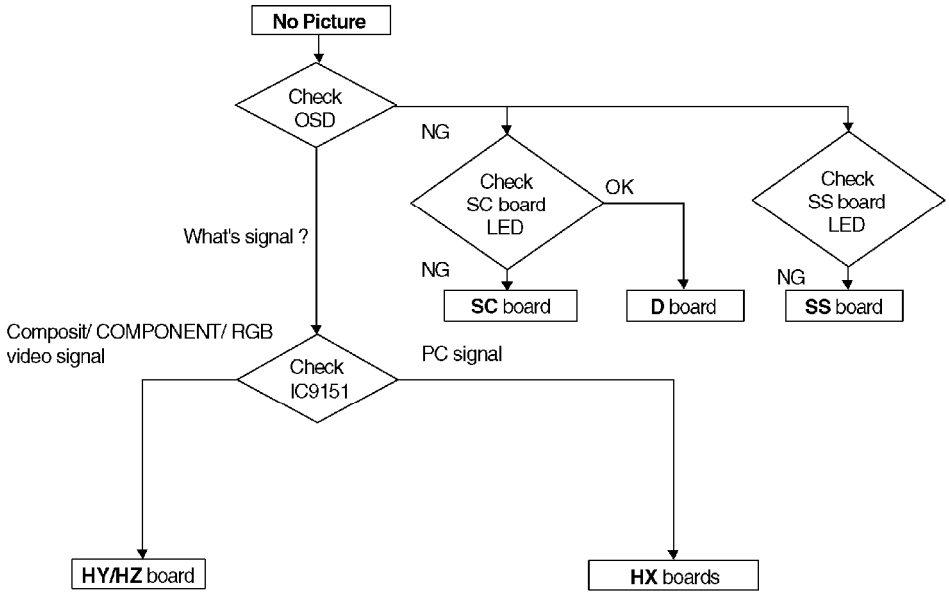
1. No lit



Drive circuits LED indicator



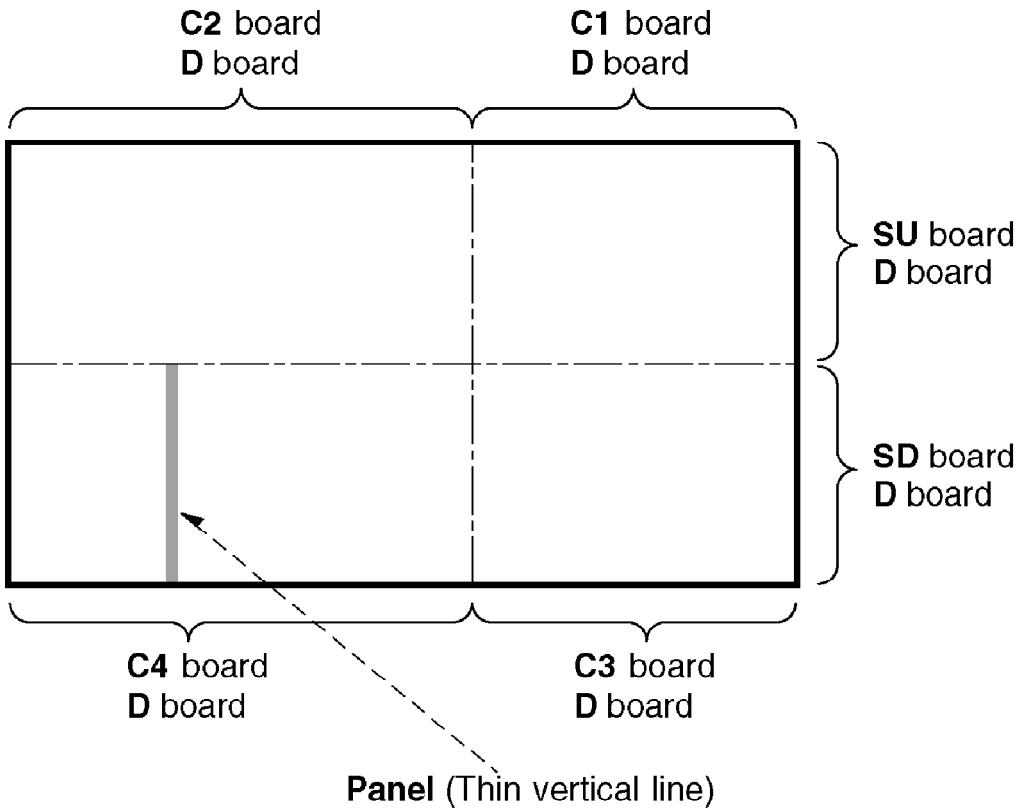
11.3. No Picture



11.4. Local screen failure

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.

Fig - 1



<Local screen failure chart>

12. Option Setting

12.1. How to access and setting

12.2. Contents of Option Menu

This chassis series have special function and operation setting facility called Option Menu. This Option Menu is useful for special function required customers. This should be set at the installation stage. The end user could not set or change these becauseof hidden On screen menu.

Option menus	default setting	Contents
Off-timer function	Enable	Off-timer operation Enable/Disable.
On Screen display	On	Enable/Disable to display input mode indication aft power on and no signal indication.
Initial Input	Off	Sets the initial input mode when the power is turne Allow input mode selection while power is on.
Initial VOL. level	Off	Sets the initial volume level when the power is turr Allow Volume control while power is on.
Maximum VOL. Level	Off	Sets the maximum volume to desired level. Volume exceed this level.
INPUT lock	Off	Fixes the input mode to AV, Component/RGB or PC not change input mode by input selection key.
Button lock	Off	Enable/Disable front operation buttons (Input and/ volume up/down)
Studio W/B	Off	Set warm mode color temperature to 3,200 Kelvin.
Remocon User Level	Off	Remote key invalidation. Off : Valid key is all key of remote. User1 : Valid key are only Stand-by (ON/OFF), Inpu Status, Surround, Sound mute On/Off, and volume adjustment. User2: Valid key is only Stand-by (ON/OFF). User3 : All keys are null and void
ID Select	0 to 100	Set ID number from 001 to 100.
Remote ID	Off	Remote ID function On/Off. (While the Remote ID on, standard remote function control the unit.)
Serial	Off	Serial ID function On/Off
Slot power	Off	Sets the slot power mode the power is turned on. Allow Optional Terminal Board insert Slots while p on.

Note :
How to set Remocon User Level and Remote ID off

1. Access service mode (CAT-mode) and press SET UP key on remote.

2. Accsess option menu.

3. Change Remocon User Level and/ or Remote ID set to Off.

13. Conductor Views

13.1. PF-Board

13.2. P-Board

13.3. HX-Board

13.4. HY-Board

13.5. J-Board

13.6. D-Board

13.7. C1-Board

13.8. C2-Board

13.9. C3-Board

13.10. C4-Board

13.11. SC-Board

13.12. SU-Board

13.13. SD-Board

13.14. SS, SS2 and SS3-Board

13.15. Z-Board

13.16. V1, S1 and H3-Board

14. Schematic Diagrams

14.1. Schematic Diagram Notes

14.2. Main Block Diagram

14.3. PF-Board Schematic Diagram

14.4. Power Block Diagram

14.5. P-Board (1 of 6) Schematic Diagram

14.6. P-Board (2 of 6) Schematic Diagram

14.7. P-Board (3 of 6) Schematic Diagram

14.8. P-Board (4 of 6) Schematic Diagram

14.9. P-Board (5 of 6) Schematic Diagram

14.10. P-Board (6 of 6) Schematic Diagram

14.11. HX-Board Block Diagram

14.12. HX-Board Schematic Diagram

14.13. HY-Board Block Diagram

14.14. HY-Board (1 of 3) Schematic Diagram

14.15. HY-Board (2 of 3) Schematic Diagram

14.16. HY-Board (3 of 3) Schematic Diagram

14.17. J-Board Block Diagram

14.18. J-Board (1 of 4) Schematic Diagram

14.19. J-Board (2 of 4) Schematic Diagram

14.20. J-Board (3 of 4) Schematic Diagram

14.21. J-Board (4 of 4) Schematic Diagram

14.22. D-Board (1 of 2) Block Diagram

14.23. D-Board (2 of 2) Block Diagram

14.24. D-Board (1 of 15) Schematic Diagram

14.25. D-Board (2 of 15) Schematic Diagram

14.26. D-Board (3 of 15) Schematic Diagram

14.27. D-Board (4 of 15) Schematic Diagram

14.28. D-Board (5 of 15) Schematic Diagram

14.29. D-Board (6 of 15) Schematic Diagram

14.30. D-Board (7 of 15) Schematic Diagram

14.31. D-Board (8 of 15) Schematic Diagram

14.32. D-Board (9 of 15) Schematic Diagram

14.33. D-Board (10 of 15) Schematic Diagram

14.34. D-Board (11 of 15) Schematic Diagram

14.35. D-Board (12 of 15) Schematic Diagram

14.36. D-Board (13 of 15) Schematic Diagram

14.37. D-Board (14 of 15) Schematic Diagram

14.38. D-Board (15 of 15) Schematic Diagram

14.39. C1-Board, C2-Board, C3-Board, C4-Board and V1-Board Block Diagram

14.40. C1-Board (1 of 2) Schematic Diagram

14.41. C1-Board (2 of 2) Schematic Diagram

14.42. C2-Board (1 of 2) Schematic Diagram

14.43. C2-Board (2 of 2) Schematic Diagram

14.44. C3-Board (1 of 2) Schematic Diagram

14.45. C3-Board (2 of 2) Schematic Diagram

14.46. C4-Board (1 of 2) Schematic Diagram

14.47. C4-Board (2 of 2) Schematic Diagram

14.48. SC-Board Block Diagram

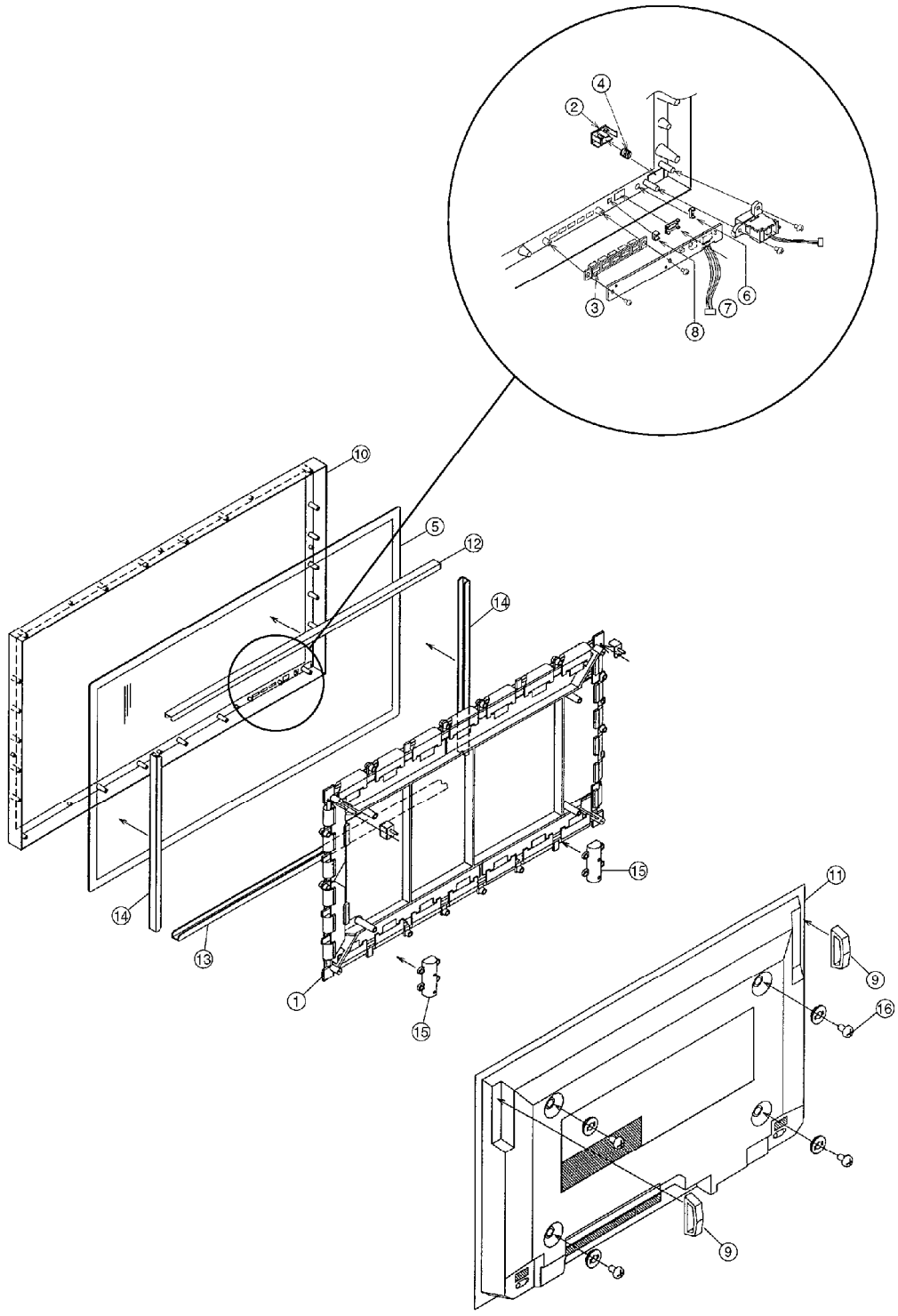
14.49. SC-Board (1 of 2) Schematic Diagram

14.50. SC-Board (2 of 2) Schematic Diagram

14.51. SU-Board Block Diagram

14.52. SU-Board (1 of 2) Schematic Diagram

14.53. SU-Board (2 of 2) Schematic Diagram
14.54. SD-Board Block Diagram
14.55. SD-Board (1 of 2) Schematic Diagram
14.56. SD-Board (2 of 2) Schematic Diagram
14.57. S1-Board, SS-Board, SS2-Board and SS3-Board Block Diagram
14.58. SS-Board (1 of 2) Schematic Diagram
14.59. SS-Board (2 of 2) Schematic Diagram
14.60. Z-Board and H3-Board Block Diagram
14.61. Z-Board (1 of 2) Schematic Diagram
14.62. Z-Board (2 of 2) Schematic Diagram
15. Parts Location



16. Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	EUR646529	REMOTE CONTROL	1	TH-42PHD6BX/EX/UY
	EUR646530	REMOTE CONTROL	1	TH-42PHW6EX
	FBL06A12LS	FAN	2	
	J0KF00000018	FILTER	1	
	J0KG00000054	NOISE FILTER	2	
	K2AH3H000027	AC INLET	1	⚠
	K2CG3DH00025	AC CORD	1	TH-42PHD6UY ⚠
	K2CN3DH00004	AC CORD	1	TH-42PHW6EX TH-42PHD6EX ⚠
	K2CT3DH00017	AC CORD	1	TH-42PHD6BX ⚠
	K4DQD0000061	CABLE TERMINAL (1P)	3	
1	MD42H06A1J	PLASMA DISPLAY PANEL	1	⚠
	TBMA008	PANASONIC BADGE	1	TH-42PHD6BX/EX/UY
	TBMA118	PANASONIC BADGE	1	TH-42PHW6EX
2	TBXA28202A	POWER BUTTON	1	TH-42PHD6BX/EX/UY
2	TBXA28214	POWER BUTTON	1	TH-42PHW6EX
3	TBXA38901	HINDGE BUTTON	1	TH-42PHW6EX
3	TBXA38902	HINDGE BUTTON	1	TH-42PHD6BX/EX/UY
4	TESD031	SPRING	1	
	THEA068N	SCREW	4	
	THEL023Z	SCREW	14	
	THEL027N	SCREW	26	
	THEL035N	SCREW	92	
	THTD010N	SCREW	6	
	THTD011	SCREW	3	
	THTF003Y	SCREW	37	
5	TKGA5119	FRONT GALLAS	1	
6	TKKC5105	LED PANEL	1	
	TKKL5266	COVER	1	
7	TKPA60301	REMOCON RECEIVE PANEL	1	TH-42PHD6BX/EX/UY
7	TKPA60302	REMOCON RECEIVE PANEL	1	TH-42PHW6EX
8	TKPA63401	PHOTO IC RECEIVE PANEL	1	
9	TKRA29801	HANDLE	2	
	TMKX236	INSULATOR	1	
	TMM15414-2	CLAMPER	2	
	TMM17499	CLAMPER	1	
	TMM25401	CLAMPER	3	
	TMM7468-1	CLAMPER	2	
	TMME047	CLAMPER	4	
	TMME061	CLAMPER	4	
	TMME075	EADG SADOLE	2	
	TMME144	CLAMPER	1	
	TMME152	CLAMPER	1	
	TMME185	CLAMPER	2	
	TMME187	CLAMPER	2	
	TMME189	CLAMPER	2	
	TMME225	AC CORD CLAMPER	1	
	TMME228	CLAMPER	2	
	TMMJ074	CUSHION (RUBBER)	6	
	TMMJ078	CUSHION (RUBBER)	8	
	TMMX095	BRACKET	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TMWC006-1	POWER BUTTOM BRACKET	1	
	TMXX021-1	CORE HOLDER	4	
	TPCA95901A	BOTTOM CARTON	1	
	TPCB34118	CARTON BOX	1	TH-42PHD6EX ⚠
	TPCB34119	CARTON BOX	1	TH-42PHD6BX ⚠
	TPCB34122	CARTON BOX	1	TH-42PHW6EX ⚠
	TPCB40402	CARTON BOX	1	TH-42PHD6UY ⚠
	TPCB48402	CARTON BOX	1	TH-42PHD6UY ⚠
	TPD169487	JOINT	8	
	TPDA0510-1	CUSHION(UPPER RIGHT)	1	
	TPDA0511-1	CUSHION(UPPER LEFT)	1	
	TPDA0512	CUSHION(UPPER CENTER)	1	
	TPDA0513	CUSHION(BOTTOM RIGHT)	1	
	TPDA0514	CUSHION(BOTTOM LEFT)	1	
	TPDA0515-2	CUSHION(BOTTOM CENTER)	1	
	TPDA0675	CUSHION(UPPER RIGHT/LEFT)	2	TH-42PHD6UY
	TPDA0676	CUSHION(UPPER CENTER)	1	TH-42PHD6UY
	TPDA0794	CUSHION(BOTTOM RIGHT/LEFT	1	TH-42PHD6UY
	TPDF0596	CUSHION	1	
	TPDF0737	PAPER BOX	1	
	TPDF0905	PAD(UPPER)	1	TH-42PHD6UY
	TPEH170	PROTECT COVER	1	
	TPGA2150	BOTTOM CARTON	1	TH-42PHD6UY
	TQBC0570	INSTRUCTION BOOK(ENGLISH)	1	TH-42PHD6UY ⚠
	TQBC0571	INSTRUCTION BOOK(FRENCH)	1	TH-42PHD6UY ⚠
	TQBC0572	INSTRUCTION BOOK(SPANISH)	1	TH-42PHD6UY ⚠
	TQBC0573	INSTRUCTION BOOK(ENGLISH	1	TH-42PHW6EX ⚠
	TQBC0574	INSTRUCTION BOOK(GARMEN)	1	TH-42PHW6EX ⚠
	TQBC0575	INSTRUCTION BOOK(FRENCH)	1	TH-42PHW6EX ⚠
	TQBC0576	INSTRUCTION BOOK(ITALIAN)	1	TH-42PHW6EX ⚠
	TQBC0577	INSTRUCTION BOOK(SPANISH)	1	TH-42PHW6EX ⚠
	TQBC0578	INSTRUCTION BOOK(DUTCH)	1	TH-42PHW6EX ⚠
	TQBC0579	INSTRUCTION BOOK(DANISH)	1	TH-42PHW6EX ⚠
	TQBC0580	INSTRUCTION BOOK(SWEDISH)	1	TH-42PHW6EX ⚠
	TQBC0598	INSTRUCTION BOOK(ENGLISH)	1	TH-42PHD6EX ⚠
	TQBC0599	INSTRUCTION BOOK(GARMEN)	1	TH-42PHD6EX ⚠
	TQBC0600	INSTRUCTION BOOK(FRENCH)	1	TH-42PHD6EX ⚠
	TQBC0601	INSTRUCTION BOOK(ITALIAN)	1	TH-42PHD6EX ⚠
	TQBC0602	INSTRUCTION BOOK(SPANISH)	1	TH-42PHD6EX ⚠
	TQBC0603	INSTRUCTION BOOK(DUTCH)	1	TH-42PHD6EX ⚠
	TQBC0604	INSTRUCTION BOOK(DANISH)	1	TH-42PHD6EX ⚠
	TQBC0605	INSTRUCTION BOOK(SWEDISH)	1	TH-42PHD6EX ⚠
	TQBC0606	INSTRUCTION BOOK(ENGLISH)	1	TH-42PHD6BX ⚠
	TSXL139	CABLE	8	
	TSXL214	CABLE (D-C4)	1	
	TSXL216	CABLE	8	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TSXL222	CABLE (C-C)	2	
	TSXL289	CABLE (D-C3)	1	
	TSXL290	CABLE (D-C4)	1	
	TSXL308	CABLE (D-C2)	1	
10	TTEA0138	ESCUTCHEON	1	TH-42PHD6BX/EX/UY ⚠
10	TTEA0139	ESCUTCHEON	1	TH-42PHW6EX ⚠
11	TTUA0728	REAR COVER	1	TH-42PHD6UY ⚠
11	TTUA0729	REAR COVER	1	TH-42PHD6BX/EX ⚠
11	TTUA0731	REAR COVER	1	TH-42PHW6EX ⚠
12	TXFMZ020QBS	STAND POOL BRACKET	2	
	TXJSPL0QBS	SPEAKER REED(LEFT)	1	
	TXJSPR0QBS	SPEAKER REED(RIGHT)	1	
	XTB4+10A	SCREW	19	
	XTBT964	SCREW	2	
	XTS3+10J	SCREW	8	
	XTV3+6J	SCREW	2	
	XTW3+8T	SCREW	3	
	XYC3+FF8	SCREW	4	
	XYC4+FJ35FZ	SCREW	18	
	XYN3+C8	SCREW	2	
	XYN3+F10	SCREW	4	
	XYN3+F10FZ	SCREW	10	
	XYN3+F8	SCREW	2	
	XYN4+E8	SCREW	1	
	XYN5+C15	SCREW	6	
	XYN8+F20FZ	SCREW	4	
	XZBT6506	POLY BAG	1	

17. Replacement Parts List

17.1. Relpacement Parts List Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.
After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W
Type Allowance

Type	Allowance
C : Carbon	F : ±1%
F : Fuse	G : ±2%
M : Metal Oxide Metal FIlm	J : ±5%
S : Solid	K : ±10%
W : Wire Wound	M : ±20%

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V
Type Allowance

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester Polyprop lene	F : ±1pF
	G : ±3pF
	J : ±5pF
T : Tantalum	K : ±10pF
	L : ±15pF
	M : ±20pF
	P : +100%, -0%
	Z : +80%, -20%

17.2. Electrical Replacement List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
F902	K5D312BK0012	FUSE	1	⚠
F900.901	K5Y802B00001	FUSE	2	⚠
C11	K1MN80B00002	CONNECTOR	1	
C12	K1MN20B00043	20P CONNECTOR	1	
C21	K1MN80B00002	CONNECTOR	1	
C22	K1MN20B00043	20P CONNECTOR	1	
C31	K1MN80B00002	CONNECTOR	1	
C32	K1KA12A00227	12P CONNECTOR	1	
C33	K1MN20B00043	20P CONNECTOR	1	
C41	K1MN80B00002	CONNECTOR	1	
C42	K1KA04A00199	4P CONNECTOR	1	
C43	K1MN20B00043	20P CONNECTOR	1	
C44	K1KA08A00232	8P CONNECTOR	1	
C802	EEUFC1E471	E 470UF, 25V	1	
C803	EEUFC1E331	E 330UF, 25V	1	
C805	EEUFC1C102	E 1000UF, 16V	1	
C806	EEUFC1A102	E 1000UF, 10V	1	
C807	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C808,09	ECQB1H103JF	P 0.01UF, J, 50V	2	
C810	EEUFC1E561	E 560UF, 25V	1	
C811	ECQB1H103JF	P 0.01UF, J, 50V	1	
C812	ECQB1H104JF	P 0.1UF, J, 50V	1	
C813	ECQB1H473JF	P 0.047UF, J, 50V	1	
C814	EEUFC0J152	E 1500UF, 6.3V	1	
C815	ECQB1H104JF	P 0.1UF, J, 50V	1	
C816	ECQB1H682JF3	P 6800PF, J, 50V	1	
C901	ECQU2A105BN9	P 1UF, 250V	1	⚠
C902-05	ECKCNA221KB7	C 220PF, M,	4	⚠
C906	ECQU2A224BN9	P 0.22UF, 250V	1	⚠
C912	ECQU2A105MGA	P 1UF, 250V	1	⚠
C913	EETHC2W101J	C 4700PF, Z,450V	1	
C914	ECQE6223KF	P 0.022UF, K,400V	1	
C915	ECA1HHG100	E 10UF, 50V	1	
C916	ECA1VHG470	E 47UF, 35V	1	
C917	ECQV1H104JM	P 0.1UF, J, 50V	1	
C918	ECA1HHG330	E 33UF, 50V	1	
C919	ECKD3D102KBP	C 1000PF, K, 2KV	1	
C920	ECKCNA221KB7	C 220PF, M,	1	⚠
C921	ECKD3A221KBP	C 220PF, K, 1KV	1	
C922	EEUFC1E272	E 2700UF, 25V	1	
C923	EEUFC1E152	E 1500UF, 25V	1	
C924	ECA1HHG010	E 1UF, 50V	1	
C925	ECA1HHG100	E 10UF, 50V	1	
C951	EEVHB1C470	E 47UF, 16V	1	
C952	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C953-58	EEVHB1C470	E 47UF, 16V	6	
C959,60	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C961	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C962-64	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C965	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C966	EEVHB1C470	E 47UF, 16V	1	
C967,68	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C969	EEVHB1C470	E 47UF, 16V	1	
C970	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C971	EEVHB1C470	E 47UF, 16V	1	
C972	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1001,02	ECJ1XC1H150J	C 15PF, J, 50V	2	
C1003	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1004	EECS5R5H155	E 1.5UF, 5.5V	1	
C1530	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C2312	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2313	ECA1HHG470	E 47UF, 50V	1	
C2314	ECA1EHG470	E 47UF, 25V	1	
C2350,51	TCUY1C225KBM	C 2.2UF, 16V	2	F1K1C225A026
C2352,53	ECA1HHG100	E 10UF, 50V	2	
C2354,55	ECA1VM470	E 47UF, 35V	2	
C2356,57	ECJ2XB1H102K	C 1000PF, K, 50V	2	
C2358,59	ECA1HM2R2	E 2.2UF, 50V	2	
C2360,61	ECJ2XC1H102J	C 1000PF, J, 50V	2	
C2362,63	ECA1EM471	E 470UF, 25V	2	
C2364,65	ECQV1H104JM	P 0.1UF, J, 50V	2	
C2366,67	ECQV1H225JM	P 2.2UF, J, 50V	2	
C2368,69	ECQV1H104JM	P 0.1UF, J, 50V	2	
C2370	ECA1VM470	E 47UF, 35V	1	
C2417	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C2419	ECA1HHG100	E 10UF, 50V	1	
C2422	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C2423	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2426	ECJ2XB1H153K	C 0.015UF, K, 50V	1	
C2427	ECA1HHG100	E 10UF, 50V	1	
C2429	EEAGA1C101	E 100UF, 16V	1	
C2431	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2433	ECJ2XB1H393K	C 0.039UF, K, 50V	1	
C2434	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C2435	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2436	ECJ3XB1C105K	C 1UF, K, 16V	1	
C2437,38	EEAGA1C101	E 100UF, 16V	2	
C2440,41	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C2442	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2450	ECA1HHG100	E 10UF, 50V	1	
C2451	ECA1HHG4R7	E 4.7UF, 50V	1	
C2452	ECJ2XB1H562K	C 5600PF, K, 50V	1	
C2453	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2454	ECA1HHG4R7	E 4.7UF, 50V	1	
C2457	ECA1HHG4R7	E 4.7UF, 50V	1	
C2458	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C2459	ECJ3XB1C105K	C 1UF, K, 16V	1	
C2460	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2461	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C2463	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2466,67	ECJ3XB1C105K	C 1UF, K, 16V	2	
C2480	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2484	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3001	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3002	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C3003	EEVHP1A100	E 10UF, 10V	1	
C3004	EEVHB1C470	E 47UF, 16V	1	(J)
C3004	EEVHP1A100	E 10UF, 10V	1	(HY)
C3005	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3005	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3006	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3006	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3007	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3007	EEVHB1C470	E 47UF, 16V	1	(J)
C3008	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C3009	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(J)
C3009	EEVHB1C470	E 47UF, 16V	1	(HY)
C3010	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3011	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(J)
C3011	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3012	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3012	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3013	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3013	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(HY)
C3014	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3014	EEVHB1C470	E 47UF, 16V	1	(HY)
C3015	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3015	ECJ1XC1H470J	C 47PF, J, 50V	1	(HY)
C3016	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3016	ECJ1XC1H220J	C 22PF, J, 50V	1	(HY)
C3017	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3017	ECJ1XC1H680J	C 68PF, J, 50V	1	(HY)
C3018	EEVHB1C470	E 47UF, 16V	1	
C3019	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3019	F1K0J3350002	OR F1K0J3350001,ECJ3YB0J	1	(HY)
C3020	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C3021	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(HY)
C3021	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3022	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HY)
C3022-31	TCUY1C225KBM	C 2.2UF, 16V	10	F1K1C225A026 (J)
C3032	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3040,41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C3051-54	ECJ1XC1H561J	C 560PF, J, 50V	4	
C3055,56	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3101	EEVHB0G221	E 220UF, 4V	1	
C3102	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3103	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3104	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3104,05	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	(J)
C3105	EEVHB0G221	E 220UF, 4V	1	(HY)
C3106	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3106	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3107	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3107	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3108	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3108	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3109	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3109	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3110	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3110	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3111	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3111	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3112	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3112	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3113	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3113	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3114	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3114	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	(J)
C3115	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3115	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3116	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3116	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3117	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3117	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3118	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3118	EEVHB1C470	E 47UF, 16V	1	(J)
C3119-21	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C3122	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3123-26	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3127	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3128-02	ECJ1XB1C104K	C 0.1UF, Z, 16V	7	
C3134	EEVHB1C471	E 470UF, 16V	1	
C3135	ECJ1VB1C103K	C 0.01UF, K, 16V	1	(HY)
C3135	EEVHB1C471	E 470UF, 16V	1	(J)
C3136	ECJ1XC1H330J	C 33PF, J, 50V	1	(HY)
C3136	EEVHB1C471	E 470UF, 16V	1	(J)
C3137	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3138	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C3139	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3140	ECJ1XC1H101J	C 100PF, J, 50V	1	
C3141	ECJ1XB0J105K	C 1UF, K, 16V	1	(HY)
C3141	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3142	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3142,43	TCUY1C225KBM	C 2.2UF, 16V	2	F1K1C225A026 (J)
C3144	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3144	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3146	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3147	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C3148	ECJ1XB0J105K	C 1UF, K, 16V	1	
C3149	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3150	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C3151	ECJ1XC1H330J	C 33PF, J, 50V	1	
C3152	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3153	ECJ1XC1H101J	C 100PF, J, 50V	1	
C3154	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3156	ECJ1XB0J105K	C 1UF, K, 16V	1	
C3157	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C3158	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3159	EEVHB0G221	E 220UF, 4V	1	
C3160,61	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C3162-66	ECJ1VF1A105Z	C 1UF, Z, 10V	5	
C3167-78	ECJ1XB1C104K	C 0.1UF, Z, 16V	12	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3179	EEVHB0G221	E 220UF, 4V	1	
C3180-83	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3184	EEVHB0G221	E 220UF, 4V	1	
C3185	ECJ1XC1H060D	C 6PF, D, 50V	1	
C3186	ECJ1XC1H470J	C 47PF, J, 50V	1	
C3187	EEVHB0G221	E 220UF, 4V	1	
C3188	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3200,01	ECJ2VF1C105Z	C 1UF, Z, 16V	2	(J)
C3202	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HY)
C3202	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3203	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HY)
C3203	ECJ2VF1E104Z	C 0.1UF, Z, 25V	1	(J)
C3204	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HY)
C3204	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3205	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HY)
C3205	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3206	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3207	EEVHB0G221	E 220UF, 4V	1	
C3208-14	ECJ1VF1A105Z	C 1UF, Z, 10V	7	
C3216,17	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C3218	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3219	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C3251,52	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	(J)
C3253	ECJ1XB1H102K	C 1000UF, Z, 50V	1	(HY)
C3253	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3254	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3254	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3255	ECJ1XB1H102K	C 1000UF, Z, 50V	1	(HY)
C3255	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3256	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3256	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3257	ECJ1XB1H102K	C 1000UF, Z, 50V	1	(HY)
C3257	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3258	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3258	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3259	ECJ1XB1H102K	C 1000UF, Z, 50V	1	(HY)
C3259	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3260	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3260	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3261	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	(J)
C3261	EEVHB0G221	E 220UF, 4V	1	(HY)
C3262	ECJ1XB1H102K	C 1000UF, Z, 50V	1	(HY)
C3262	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3263	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3263	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3264	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3264	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3265	EEVHB0G221	E 220UF, 4V	1	(HY)
C3265	EEVHB1C470	E 47UF, 16V	1	(J)
C3266	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3266-68	EEVHB1C471	E 470UF, 16V	3	(J)
C3308	EEVHB0G221	E 220UF, 4V	1	
C3309	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3311,12	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3313	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3315	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3316	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3317	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3318-21	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3322,23	EEVHB0G221	E 220UF, 4V	2	
C3324	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C3325,26	EEVHB1C470	E 47UF, 16V	2	
C3327-30	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3401	EEVHP1C100R	E 10UF, 16V	1	
C3404	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3405	EEVHB1C470	E 47UF, 16V	1	
C3409	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3507,08	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C3510,11	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3520	EEVHB1C470	E 47UF, 16V	1	
C3521	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3523	EEVHB1C470	E 47UF, 16V	1	(HX)
C3523	EEVHB1C470	E 47UF, 16V	1	(HY)
C3524	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	(HY)
C3524	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	(HX)
C3525,26	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3527	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C3550	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3551	EEVHB1C470	E 47UF, 16V	1	
C3561,62	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C6401-06	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C6407	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6408	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6417-20	F1L2E1040002	E 1000UF, 25V	4	
C6421-26	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C6427	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6428	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6432	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C6433	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6434	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6435	EEUFC1E221	E 220UF, 25V	1	
C6436	ECA1HM221	E 220UF, 50V	1	
C6437	ECJ2XB1H104K	C 0.1UF, K, 50V	1	(SC)
C6437-40	F1L2E1040002	E 1000UF, 25V	4	(SD)
C6452	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6453	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6454	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6455	EEUFC1E221	E 220UF, 25V	1	
C6456	ECA2CM101	E 100UF, 160V	1	
C6458	F1L1E4750004	C 4.7UF, 25V	1	
C6459	EEUFC1E470	E 47UF, 25V	1	
C6461	ECA1HM101	E 100UF, 50V	1	
C6462,63	F1L1E4750004	C 4.7UF, 25V	2	
C6465	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6466,67	F1L1E4750004	C 4.7UF, 25V	2	
C6472	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6473	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6474	ECJ2XB1H103K	C 0.01UF, K, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6475	EEUFC1E221	E 220UF, 25V	1	
C6476	ECA2CM101	E 100UF, 160V	1	
C6490	F1K2J222A014	C 2200UF, K,6.3V	1	
C6492	EEUED2V100	E 10UF,	1	
C6493	ECJ3XB2J222K	C 2200PF, K,630V	1	
C6501-08	ECJ2VF1C105Z	C 1UF, Z, 16V	8	
C6509	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6510-12	F1L1E4750004	C 4.7UF, 25V	3	
C6513	ECA2CM101	E 100UF, 160V	1	
C6514	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6515,16	F1L1E4750004	C 4.7UF, 25V	2	
C6517	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6521	F1L1E4750004	C 4.7UF, 25V	1	
C6522	ECA1VM470	E 47UF, 35V	1	
C6524,25	ECJ3FC2D102J	C 1000PF, J,200V	2	
C6526	ECA2EHG470	E 47UF, 250V	1	
C6541,42	F1L1E4750004	C 4.7UF, 25V	2	
C6543-45	ECJ3FC2D102J	C 1000PF, J,200V	3	
C6546	F1L1E4750004	C 4.7UF, 25V	1	
C6550	ECA2CM101	E 100UF, 160V	1	
C6571	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6575-78	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C6580,81	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C6584	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6585	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6598	ECA2CM101	E 100UF, 160V	1	
C6600	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6601-06	ECA2DHG221	E 220UF, 200V	6	
C6607	ECWF2205JS	P 2UF, 250V	1	
C6609	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6610	EEUFC1E221	E 220UF, 25V	1	
C6611-14	F1K2J222A014	C 2200UF, K,6.3V	4	
C6619	F1K2J222A014	C 2200UF, K,6.3V	1	
C6621,22	F1L1E4750004	C 4.7UF, 25V	2	
C6623	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6625	F1K2J222A014	C 2200UF, K,6.3V	1	
C6628	F1K2J222A014	C 2200UF, K,6.3V	1	
C6631	F1K2J222A014	C 2200UF, K,6.3V	1	
C6639	F1L2E1040002	E 1000UF, 25V	1	
C6640	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6641,42	F1L1E4750004	C 4.7UF, 25V	2	
C6650,51	F1L1E4750004	C 4.7UF, 25V	2	
C6652	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6679,80	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C6681,82	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C6683,84	EEUFC1E470	E 47UF, 25V	2	
C6701	ECWF2205JS	P 2UF, 250V	1	
C6702	ECWF2205JS	P 2UF, 250V	1	
C6704	ECWF2205JS	P 2UF, 250V	1	
C6705	ECWF2205JS	P 2UF, 250V	1	
C6709	F1L2E1040002	E 1000UF, 25V	1	
C6711-14	ECA2DHG221	E 220UF, 200V	4	
C6715	ECWF2205JS	P 2UF, 250V	1	
C6717	ECJ3YB1E105K	C 1UF, K, 25V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6718	EEUFC1E221	E 220UF, 25V	1	
C6720	EEUFC1E221	E 220UF, 25V	1	
C6721	F2A1E101A089	E 100UF 25V	1	
C6722,23	ECA2CM101	E 100UF, 160V	2	
C6724	ECA2DHG221	E 220UF, 200V	1	
C6726	EEUFC1E561	E 560UF, 25V	1	
C6727	F1K2J222A014	C 2200UF, K,6.3V	1	
C6729	F1K2J222A014	C 2200UF, K,6.3V	1	
C6731	F1K2J222A014	C 2200UF, K,6.3V	1	
C6733	F1K2J222A014	C 2200UF, K,6.3V	1	
C6743,44	ECA2DHG221	E 220UF, 200V	2	
C6747,48	F1L1E4750004	C 4.7UF, 25V	2	
C6749	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6750,51	F1L1E4750004	C 4.7UF, 25V	2	
C6752	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6753	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6755	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6756,57	F1L1E4750004	C 4.7UF, 25V	2	
C6758-61	ECJ3YB1E105K	C 1UF, K, 25V	4	
C6762-64	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C6771	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6784	ECJ3XB2J222K	C 2200PF, K,630V	1	
C6804-07	F1K2J222A014	C 2200UF, K,6.3V	4	
C7101	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7102	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7103-06	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C7107	F1K2A1040004	C 0.1UF, 100V	1	
C7111	F1K2A1040004	C 0.1UF, 100V	1	
C7113	F1K2A1040004	C 0.1UF, 100V	1	
C7115	F1K2A1040004	C 0.1UF, 100V	1	
C7150-52	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7153-56	ECJ1XC1H101J	C 100PF, J, 50V	4	
C7171	F1K2A1040004	C 0.1UF, 100V	1	
C7176-78	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C7179	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7301	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7302	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7303	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7307	F1K2A1040004	C 0.1UF, 100V	1	
C7311	F1K2A1040004	C 0.1UF, 100V	1	
C7313	F1K2A1040004	C 0.1UF, 100V	1	
C7317	F1K2A1040004	C 0.1UF, 100V	1	
C7319	F1K2A1040004	C 0.1UF, 100V	1	
C7321-23	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C7350-52	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7353-56	ECJ1XC1H101J	C 100PF, J, 50V	4	
C7370-73	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C7501	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7502	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7503,04	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C7506	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7507	F1K2A1040004	C 0.1UF, 100V	1	
C7510	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7511	F1K2A1040004	C 0.1UF, 100V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7513	F1K2A1040004	C 0.1UF, 100V	1	
C7517	F1K2A1040004	C 0.1UF, 100V	1	
C7519	F1K2A1040004	C 0.1UF, 100V	1	
C7550-52	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7553-56	ECJ1XC1H101J	C 100PF, J, 50V	4	
C7572-74	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C7575	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7606	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7701	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7702	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7703-06	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C7707	F1K2A1040004	C 0.1UF, 100V	1	
C7711	F1K2A1040004	C 0.1UF, 100V	1	
C7713	F1K2A1040004	C 0.1UF, 100V	1	
C7715	F1K2A1040004	C 0.1UF, 100V	1	
C7717	F1K2A1040004	C 0.1UF, 100V	1	
C7750-52	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7772-74	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C7775-79	ECJ1XC1H101J	C 100PF, J, 50V	5	
C8001,02	EEVHB1C470	E 47UF, 16V	2	
C8003,04	ECJ1VF1H104Z	C 0.1UF, Z, 50V	2	
C8005,06	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C8007,08	ECJ1VB1H471K	C 470PF, K, 50V	2	
C8009	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8011	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8013,14	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C8015	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C8016	F1K1C4750018	OR ECJ3YB1A475K	1	
C8017	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C8018	F1K1C4750018	OR ECJ3YB1A475K	1	
C8019,20	ECJ1VB1H103K	C 0.01UF, K, 50V	2	
C8021,22	ECJ3VB1C474K	C 0.47UF, K, 16V	2	
C8023-26	ECJ1VB1H103K	C 0.01UF, K, 50V	4	
C8027	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C8029	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C8030	EEVHB1C470	E 47UF, 16V	1	
C8031	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C8032	EEVHB1C470	E 47UF, 16V	1	
C8033,34	ECJ1XC1H102J	C 1000PF, J, 50V	2	
C8035	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8036,37	ECJ1XC1H101J	C 100PF, J, 50V	2	
C8038,39	ECJ2XC1H102J	C 1000PF, J, 50V	2	
C8041	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C8043	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8045,46	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C8049,50	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C8051	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8070	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C8071	EEVHB1C470	E 47UF, 16V	1	
C8072,73	ECJ3YF1A106Z	C 10UF, Z, 10V	2	
C9001	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9002	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9003	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9004	ECJ3XB0J106M	C 10UF, M,6.3V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9005,06	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9007-10	EEVHB0G221	E 220UF, 4V	4	
C9011-14	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C9016,17	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9020	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9022	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9023	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9027	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9028	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9029	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9030,31	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9032,33	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9034,35	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9036,37	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9038,39	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9040	ECJ2VB1E473K	C 0.047UF, K, 25V	1	
C9041	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9042,43	ECJ2VB1E473K	C 0.047UF, K, 25V	2	
C9044	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9045,46	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9048,49	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9050	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9051	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
C9052	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9053	ECJ1VB1H392K	C 3900PF, K, 50V	1	
C9054-56	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9057	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9058	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9059	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9060	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9061,62	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9063-66	EEVHB0G221	E 220UF, 4V	4	
C9067-70	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C9072,73	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9076,77	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9078	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9080	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9084	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9085	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9086	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9087	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9088,89	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9090,91	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9092,93	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9094,95	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9096,97	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9098	ECJ2VB1E473K	C 0.047UF, K, 25V	1	
C9099	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9100,01	ECJ2VB1E473K	C 0.047UF, K, 25V	2	
C9102	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9103	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9105-07	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9108	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9109	ECJ1XB1C393K	C 0.039UF, K, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9110	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9111	ECJ1VB1H392K	C 3900PF, K, 50V	1	
C9112-14	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9151	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9152	EEVHB0J330	E 33UF, 6.3V	1	
C9153	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9154	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9155	EEVHB1C470	E 47UF, 16V	1	
C9156	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9157-60	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9161	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9162	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9163-70	ECJ1XF1C104Z	C 0.1UF, Z, 16V	8	
C9171	EEVHB0G221	E 220UF, 4V	1	
C9172-74	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9175	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9176-82	ECJ1XF1C104Z	C 0.1UF, Z, 16V	7	
C9187	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9191	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9192	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9195	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9196	ECJ3XB1C105K	C 1UF, K, 16V	1	
C9197	ECJ2VB1E563K	C 0.056UF, K, 25V	1	
C9198	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C9199,00	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9301	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9302	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9303	EEVHB1C470	E 47UF, 16V	1	
C9304	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9305	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9307	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9308	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9309	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9310	ECJ1XC1H330J	C 33PF, J, 50V	1	
C9311	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9312,13	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9314,15	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C9316,17	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9318	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9319	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9321	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9323	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9324	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9325	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9327	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9328-30	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9331	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9332-35	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9338-46	ECJ1XF1C104Z	C 0.1UF, Z, 16V	9	
C9347	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9449	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9450	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9453	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9454,55	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9458	ECJ1XC1H331J	C 330PF, J, 50V	1	
C9460,61	ECJ1XC1H100D	C 10PF, D, 50V	2	
C9464	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9465	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9466	EEVHB0G221	E 220UF, 4V	1	
C9467	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9469	EEVHB0G221	E 220UF, 4V	1	
C9470	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9471	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9472	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9474	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9475-77	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9478	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9479-82	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9485-93	ECJ1XF1C104Z	C 0.1UF, Z, 16V	9	
C9494,95	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C9496,97	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9498	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9596-99	ECJ1VF1H103Z	C 0.01UF, Z, 50V	4	
C9601-09	ECJ1XF1C104Z	C 0.1UF, Z, 16V	9	
C9611	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9612	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9613	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9615-25	ECJ1XF1C104Z	C 0.1UF, Z, 16V	11	
C9629-38	ECJ1XF1C104Z	C 0.1UF, Z, 16V	10	
C9640,41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9700,01	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9702	EEVHB1C470	E 47UF, 16V	1	
C9703	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9705	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9706,07	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9708-10	EEVHB1C470	E 47UF, 16V	3	
C9712-17	ECJ1XC1H101J	C 100PF, J, 50V	6	
C9718	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9719	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9720	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9722,23	ECJ1XC1H100D	C 10PF, D, 50V	2	
C9724	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9725	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9726	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9727,28	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9729	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9730-33	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9737	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9740,41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9742	EEVHB1C470	E 47UF, 16V	1	
C9743	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9748,49	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9750	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9751,52	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C9753,54	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9755,56	ECJ1XF1H102Z	C 1000PF, Z, 50V	2	
C9759	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9760	ECJ1VB1C563K	C 0.056UF, K, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9761,62	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9765	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9766	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9767,68	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C9769	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9774,75	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9951-53	EEVHB1C470	E 47UF, 16V	3	
C9954,55	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9956	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9957	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9958,59	F2H1E221A007	E 2.2UF, 25V	2	
C9960	ECJ3VB1C104K	C 0.10UF, K, 16V	1	
C9961	EEFUD0G121ER	120UF	1	
C9964,65	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9966	EEVHB0G221	E 220UF, 4V	1	
C9967	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9968	EEVHB1C470	E 47UF, 16V	1	
C9969	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9970	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C9971	ECJ2XC1H222J	C 2200PF, J, 50V	1	
CA1-A8	K1MN80B00004	80P CONNECTOR	8	
CB1-B8	K1MN80B00004	80P CONNECTOR	8	
D3	K1KA40A00140	40P CONNECTOR	1	
D4	K1KA12A00227	12P CONNECTOR	1	
D5	K1KA31A00003	31P CONNECTOR	1	
D6	K1KA21A00007	21P CONNECTOR	1	
D10	K1KA12A00254	12P CONNECTOR	1	
D12	K1KA07A00189	7P CONNECTOR	1	
D20	K1KA20A00180	20P CONNECTOR	1	
D25	K1KA08A00293	8P CONNECTOR	1	
D27	K1KA09A00077	9P CONNECTOR	1	
D31-34	K1MN80B00002	CONNECTOR	4	
D802,03	M1FS4	DIODE	2	
D804	B0JCPD000010	DIODE	1	
D806,07	B0BC01000028	DIODE	2	
D901	ERZV10V621P2	VARISTOR	1	⚠
D902	D4SB80	DIODE	1	B0EBNT000002 ⚠
D903	EG01C	DIODE	1	B0HAGV000004
D904	M1FL20U4063	DIODE	1	B0HCMM000009
D906	TMPG10G3	DIODE	1	B0BA01000046
D907	PC123FY2	PHOTO COUPLER	1	B3P(J)0000012 ⚠
D920	B0HFRJ000012	DIODE	1	
D921	B0BA02000024	DIODE	1	
D922	MA152K	DIODE	1	MA3X152K
D923	LNJ201LPQJA	LED	1	
D1001	MA111	DIODE	1	MA2J111
D1550	LNJ107W5PRW	LED	1	
D1551-53	MA8056M	ZENER DIODE	3	MAZ80560M
D2301,02	M1FS4	DIODE	2	
D2308	MA152	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D2316,17	M1FS4	DIODE	2	
D3001	MA111	DIODE	1	MA2J111
D3001	MA2J72900L	DIODE	1	
D3002	MA3100L	ZENER DIODE	1	
D3003,04	MA111	DIODE	2	MA2J111
D3021	MA111	DIODE	1	MA2J111
D3024	MA111	DIODE	1	MA2J111
D3351,52	MA153	DIODE	2	MA3X153
D3501-04	MA3056M	ZENER DIODE	4	MAZ30560M
D3507-10	MA8160H	ZENER DIODE	4	MAZ81600H
D6401,02	MA8056H	ZENER DIODE	2	MAZ80560H
D6403,04	D1FL40F4063	DIODE	2	B0ECHP000001
D6411,12	MA8056H	ZENER DIODE	2	MAZ80560H
D6413,14	D1FL40F4063	DIODE	2	B0ECHP000001
D6433	MA111	DIODE	1	MA2J111
D6435	MA111	DIODE	1	MA2J111
D6436	B0JCKG000001	DIODE	1	
D6453	MA111	DIODE	1	MA2J111
D6454	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6455	MA111	DIODE	1	MA2J111
D6456	D1FL40F4063	DIODE	1	B0ECHP000001
D6458	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6459	MA111	DIODE	1	MA2J111
D6460,61	B0HCKS000001	DIODE	2	
D6465,66	MA8330M	ZENER DIODE	2	MAZ83300M
D6467	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6468	MA111	DIODE	1	MA2J111
D6469	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6470	MA111	DIODE	1	MA2J111
D6473	MA111	DIODE	1	MA2J111
D6474	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6475	MA111	DIODE	1	MA2J111
D6476	D1FL40F4063	DIODE	1	B0ECHP000001
D6478	B0HCKS000001	DIODE	1	
D6479	MA111	DIODE	1	MA2J111
D6480	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6481,82	MA8330M	ZENER DIODE	2	MAZ83300M
D6483	M1FS4	DIODE	1	
D6485-90	MA8056H	ZENER DIODE	6	MAZ80560H
D6491,92	D1FL40F4063	DIODE	2	B0ECHP000001
D6493,94	MA8056H	ZENER DIODE	2	MAZ80560H
D6495	B0HCKS000001	DIODE	1	
D6499	M1FS4	DIODE	1	
D6501-08	K7GBZEE00006	DIODE	8	
D6509	MA111	DIODE	1	MA2J111
D6510	M1FS4	DIODE	1	
D6511	M1FL20U4063	DIODE	1	B0HCMM000009
D6512-14	MA111	DIODE	3	MA2J111
D6515	MA8240M	ZENER DIODE	1	MAZ82400M
D6517,18	M1FS4	DIODE	2	
D6520	MA111	DIODE	1	MA2J111
D6521	D1FL40F4063	DIODE	1	B0ECHP000001
D6522	MA111	DIODE	1	MA2J111
D6523	D1FL40F4063	DIODE	1	B0ECHP000001

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6524	MA8051L	ZENER DIODE	1	MAZ80510L
D6525	MA111	DIODE	1	MA2J111
D6526	M1FL20U4063	DIODE	1	B0HCMM000009
D6531,32	MA8051L	ZENER DIODE	2	MAZ80510L
D6541	B0HCKS000001	DIODE	1	
D6542	MA111	DIODE	1	MA2J111
D6543	MA8051L	ZENER DIODE	1	MAZ80510L
D6544	MA111	DIODE	1	MA2J111
D6545	MA8051L	ZENER DIODE	1	MAZ80510L
D6546-48	MA8330M	ZENER DIODE	3	MAZ83300M
D6549,50	MA111	DIODE	2	MA2J111
D6552	M1FS4	DIODE	1	
D6553	MA111	DIODE	1	MA2J111
D6570	M1FL20U4063	DIODE	1	B0HCMM000009
D6572	D1FL40F4063	DIODE	1	B0ECHP000001
D6582	MA8051L	ZENER DIODE	1	MAZ80510L
D6583	LNJ201LPQJA	LED	1	
D6584	MA111	DIODE	1	MA2J111
D6585,86	MA8330M	ZENER DIODE	2	MAZ83300M
D6600	D1FL40F4063	DIODE	1	B0ECHP000001
D6605-08	M1FS4	DIODE	4	
D6611	D1FL40F4063	DIODE	1	B0ECHP000001
D6613	D1FL40F4063	DIODE	1	B0ECHP000001
D6615-18	SF20LC30F10	DIODE	4	
D6623	SF20LC30F10	DIODE	1	
D6627	SF20LC30F10	DIODE	1	
D6649	D1FL40F4063	DIODE	1	B0ECHP000001
D6650	SF20LC30F10	DIODE	1	
D6651	D1FL40F4063	DIODE	1	B0ECHP000001
D6701	SF20LC30F10	DIODE	1	
D6710	D1FL40F4063	DIODE	1	B0ECHP000001
D6711,12	SF20LC30F10	DIODE	2	
D6713	D1FL40F4063	DIODE	1	B0ECHP000001
D6715,16	SF20LC30F10	DIODE	2	
D6728,29	SF20LC30F10	DIODE	2	
D6734-37	M1FS4	DIODE	4	
D6740	D1FL40F4063	DIODE	1	B0ECHP000001
D6749,50	M1FS4	DIODE	2	
D6751-53	D1FL40F4063	DIODE	3	B0ECHP000001
D6756	M1FS4	DIODE	1	
D6758,59	MA8330M	ZENER DIODE	2	MAZ83300M
D6760	LNJ201LPQJA	LED	1	
D6761	MA8051L	ZENER DIODE	1	MAZ80510L
D6762,63	MA111	DIODE	2	MA2J111
D6764	LNJ201LPQJA	LED	1	
D6769	D1FL40F4063	DIODE	1	B0ECHP000001
D6771,72	MA111	DIODE	2	MA2J111
D6773	D1FL40F4063	DIODE	1	B0ECHP000001
D6795	D1FL40F4063	DIODE	1	B0ECHP000001
D7501-04	MA152K	DIODE	4	MA3X152K
D8001-04	MA111	DIODE	4	MA2J111
D8010,11	MA153	DIODE	2	MA3X153
D9001	MA3036H	ZENER DIODE	1	MAZ30360H
D9003	MA3036H	ZENER DIODE	1	MAZ30360H

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D9704	MA111	DIODE	1	MA2J111
D9705-13	MA3062M	ZENER DIODE	9	MAZ30620M
D9715	MA3062M	ZENER DIODE	1	MAZ30620M
D9716	MA111	DIODE	1	MA2J111
D9719,20	MA3062M	ZENER DIODE	2	MAZ30620M
D9723	MA3062M	ZENER DIODE	1	MAZ30620M
D9724	MA111	DIODE	1	MA2J111
D9727	MA152K	DIODE	1	MA3X152K
D9730	MA152K	DIODE	1	MA3X152K
D9769	MA152K	DIODE	1	MA3X152K
D9771	MA152K	DIODE	1	MA3X152K
D9952	M1FS4	DIODE	1	
D9953	MA152K	DIODE	1	MA3X152K
D9954	M1FS4	DIODE	1	
D9955	B0JCPD000010	DIODE	1	
F900-1,-2	EYF-52BC	FUSE HOLDER	2	
F901-1,-2	EYF-52BC	FUSE HOLDER	2	
F902-1,-2	EYF-52BC	FUSE HOLDER	2	
H0	K1KA08A00293	8P CONNECTOR	1	
H1,H2	K1KA80B00034	80P CONNECTOR	2	
H37	K1KA03A00171	3P CONNECTOR	1	
HX1	K1KB22A00036	20P CONNECTOR	1	
IC801	C0D(J)HG00008	IC	1	
IC802	C0D(J)HG00007	IC	1	
IC803	C0DBALH00002	IC	1	
IC901	MIP2E4DMY1TV	IC	1	
IC902	AN1431T	LINEAR IC	1	
IC951	PQ12SZ1T	IC	1	C0CBAKG00003
IC952	PQ09SZ1T	IC	1	C0CBAHG00005
IC1001	C1DB00000274	IC	1	
IC1550	B3L000000020	IC	1	
IC2301,02	LA4901	IC	2	C1BA00000278
IC2304	PQ09SZ1T	IC	1	C0CBAHG00005
IC2401	BH3865S	IC	1	C1BA00000302
IC3001	MC14052BF	IC	1	C0JBAR000021
IC3002	C0J(HY)R000002	IC	1	
IC3003	CXA1315M	LINEAR IC	1	C1AB00000440
IC3004	CXA1875AM	IC	1	C0F(HY)D000017
IC3005	C1AB00001139	IC	1	
IC3006	CXA1315M	LINEAR IC	1	C1AB00000440
IC3007	AHC2G66HDCTR	IC	1	C0JBAS000109
IC3101	C0DBEZG00004	IC	1	
IC3102	C0DBZLB00001	IC	1	
IC3103	C1AB00001826	IC	1	
IC3104	C0EBE0000066	IC	1	
IC3105	C0JBAZ001834	IC	1	
IC3108,09	AN78L05M	LINEAR IC	2	
IC3201	C1AB00001720	IC	1	(J)
IC3201 02	C3HBKZ000001	IC	1	(HY)
IC3251 02	C0ZBZ0000684	IC	1	(HY)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC3251	C1AB00001720	IC	1	(J)
IC3301	MM1065ZMR	LINEAR IC	1	C0CBA(HY)00029
IC3302	C0DBEZG00004	IC	1	
IC3303	AN80L25RMS	IC	1	
IC3305	JLC1562BFEL	IC	1	C0JBAZ000801
IC3311	C0J(HY)Z000285	IC	1	
IC3401	C0ABZA000028	IC	1	
IC3502	24LC21T-I/SN	IC	1	C3EBCC000020
IC3699	S-24C16AFJ	IC	1	C3EBGC000018
IC6401-12	C0HBC0000005	IC	12	
IC6431	AN1431M	LINEAR IC	1	
IC6434	TLP181	PHOTO COUPLER	1	B3PBA0000081
IC6451	AN1431M	LINEAR IC	1	
IC6452,53	AN78L15M	LINEAR IC	2	
IC6454,55	AN78L05M	LINEAR IC	2	
IC6471,72	AN1431M	LINEAR IC	2	
IC6491	AN1431M	LINEAR IC	1	
IC6501,02	TC74HC14AF	IC	2	C0JBAB000155
IC6511	C0ZBZ0000736	IC	1	
IC6512	AN78L05M	LINEAR IC	1	
IC6521	C0ZBZ0000736	IC	1	
IC6541,42	C0ZBZ0000736	IC	2	
IC6543	AN78L05M	LINEAR IC	1	
IC6581	AN6914S	LINEAR IC	1	
IC6601-03	C0ZBZ0000138	IC	3	
IC6604	TC74HC08AF	IC	1	C0JB(J)000084
IC6605,06	C0JBAZ000005	IC	2	
IC6701-04	C0ZBZ0000138	IC	4	
IC6705	C0ZBZ0000736	IC	1	
IC6706	C0JBAZ000005	IC	1	
IC6707	AN6914S	LINEAR IC	1	
IC6709	AN1431M	LINEAR IC	1	
IC7101	C0JBAZ001604	IC	1	
IC7105-07	C0JBAZ001604	IC	3	
IC7301	C0JBAZ001604	IC	1	
IC7305-07	C0JBAZ001604	IC	3	
IC7501	C0JBAZ001604	IC	1	
IC7505-07	C0JBAZ001604	IC	3	
IC7701	C0JBAZ001604	IC	1	
IC7705-07	C0JBAZ001604	IC	3	
IC8001,02	MC14052BF	IC	2	C0JBAR000021
IC8003,04	M52346SP	IC	2	C1(J)00000395
IC8005,06	TC74HC14AF	IC	2	C0JBAB000155
IC8007,08	TC4W53FEL	IC	2	C0JBAR000111
IC8009	AHC2G66HDCTR	IC	1	C0JBAS000109
IC8015	C0ZBZ0000205	IC	1	
IC8016	C0JBAZ001934	IC	1	
IC9001	C0CBCBD00008	IC	1	
IC9002	C0ZBZ0000551	IC	1	
IC9003	C0JBAB000550	IC	1	
IC9004	AHC2G66HDCTR	IC	1	C0JBAS000109
IC9005	C0JBAZ001992	IC	1	
IC9006,07	C0CBCBD00008	IC	2	
IC9008	C0JBAZ001992	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC9009	C0FBAD000069	IC	1	
IC9010	C0CBCBD00008	IC	1	
IC9011	C0ZBZ0000551	IC	1	
IC9012	C0JBAB000550	IC	1	
IC9013	AHC2G66HDCTR	IC	1	C0JBAS000109
IC9014	C0JBAZ000855	IC	1	
IC9015	C0JBAZ001992	IC	1	
IC9016,17	C0CBCBD00008	IC	2	
IC9018	C0JBAZ001992	IC	1	
IC9019	C0FBAD000069	IC	1	
IC9023	C0JBAZ000855	IC	1	
IC9151	MN845041-A	IC	1	
IC9152	C0CBCBD00008	IC	1	
IC9153	C0DBEZG00004	IC	1	
IC9154	C0JBAZ001604	IC	1	
IC9155	C3ABPJ000017	IC	1	
IC9157	TLC2933IPWL	IC	1	C0ABFA000012
IC9301	C1ZBZ0002358	IC	1	
IC9302	C0CBCBD00008	IC	1	
IC9303	C1ZBZ0002357	IC	1	
IC9304	C3ABPJ000043	IC	1	
IC9305	MN84510-A	IC	1	
IC9452	C0ZBZ0000423	IC	1	
IC9453	C0DBEZG00004	IC	1	
IC9454	C3ABPJ000043	IC	1	
IC9455	MN84510-A	IC	1	
IC9456	TVRJ954-1	IC	1	
IC9459	C0JBAZ001992	IC	1	
IC9601	C0JBAZ001604	IC	1	
IC9602	C0JBAZ000855	IC	1	
IC9603,04	C0JBAZ001604	IC	2	
IC9605	C1ZBZ0002329	IC	1	
IC9606	C0EBE0000066	IC	1	
IC9608	C0ZBZ0000764	IC	1	
IC9701	MN102L230	IC	1	
IC9702	C3EBJC000038	IC	1	
IC9703	C0JBAZ001604	IC	1	
IC9704	C3HAHC000006	IC	1	
IC9705	TVRJ953-1	IC	1	
IC9706	C0JBAZ000855	IC	1	
IC9707	C0JBAE000283	IC	1	
IC9708	S-24C16AFJ	IC	1	C3EBGC000018
IC9709	TVRJ950	IC	1	
IC9710	M51957BFP	IC	1	C0E(HY)0000024
IC9711	AHC2G66HDCTR	IC	1	C0JBAS000109
IC9951	C0DBAMH00006	IC	1	
IC9952	C0DBAFH00021	IC	1	
J3	K1KA40A00140	40P CONNECTOR	1	
J5	K1KA31B00004	31P CONNECTOR	1	
J6	K1KA21B00005	21P CONNECTOR	1	
J8	K1KA20A00180	20P CONNECTOR	1	
J10	K1KA06A00183	6P CONNECTOR	1	
J11-13	K1KB80B00023	80P CONNECTOR	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
J14	K1KA22A00067	22P CONNECTOR	1	
JK3001	K1CB106B0027	CONNECTOR	1	
JK3002	K1Q(HY)2AB0005	CONNECTOR	1	
JK3004	K2HA204B0097	JACK	1	
JK3303	K2HA204B0097	JACK	1	
JK3304	K1Q(HY)5AB0005	CONNECTOR	1	
JK3509	K1FB109B0058	CONNECTOR	1	
JK3511	K1FB115B0034	CONNECTOR	1	
JK3513	K2HC103B0105	JACK	1	
JK8500	K4BC02B00013	TERMINAL	1	
JS2301	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS3301-12	ERJ3GEY0R00	M 0 OHM, 1/16W	12	
JS3501-03	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JS3506-08	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JS8092-97	J0JCC0000100	CHIP INDUCTOR	6	
L801	G1C101ZA0037	INDUCTION COIL	1	
L802	G1C121ZA0037	INDUCTION COIL	1	
L803	G1C680ZA0037	INDUCTION COIL	1	
L901,02	G0B123K00001	CHOKE COIL	2	⚠
L904	G0A100GA0013	CHOKE COIL	1	
L905	ELF17N011A	LINE FILTER	1	⚠
L906	EXCELDR35C	BEAD CHOKE	1	
L951-60	ELKE103FA	NOISE FILTER	10	
L1001	ELJPA100KB	CHIP INDUCTOR	1	
L2306	ELJPA100KB	CHIP INDUCTOR	1	
L2330,31	TAL10RP221LB	INDUCTION COIL	2	G0ZZ00001909
L3001	ELJPA100KB	CHIP INDUCTOR	1	(J)
L3001	J0HA(HY)000003	LC FILTER	1	(HY)
L3002	ELJPA100KB	CHIP INDUCTOR	1	(J)
L3002	J0HA(HY)000004	LC FILTER	1	(HY)
L3003	ELJPA100KB	CHIP INDUCTOR	1	(J)
L3003	J0HA(HY)000004	LC FILTER	1	(HY)
L3005	ELJPA100KB	CHIP INDUCTOR	1	(J)
L3005	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
L3006	ELJPA100KB	CHIP INDUCTOR	1	(J)
L3006	J0E8004B0008	LCR FILTER	1	(HY)
L3007	G1C2R2K00006	INDUCTION COIL	1	
L3050	ELJPA100KB	CHIP INDUCTOR	1	
L3051,52	ELJNA1R5JF	COIL	2	
L3101-04	ELJPA100KB	CHIP INDUCTOR	4	
L3107	J0JGC0000021	CHIP INDUCTOR COIL	1	
L3108	ELJPA100KB	CHIP INDUCTOR	1	
L3201	ELJPA100KB	CHIP INDUCTOR	1	
L3251,52	ELJPA2R2MF	CHIP INDUCTOR	2	
L3303	ELJPA100KB	CHIP INDUCTOR	1	
L3305-08	ELKE103FA	NOISE FILTER	4	
L3507-09	J0HA(HY)000004	LC FILTER	3	
L3510,11	J0HA(HY)000003	EMI FILTER	2	
L3512	JJ0HA(HY)00000	EMI FILTER	1	
L3513-17	J0HA(HY)000003	EMI FILTER	5	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L3525	J0HA(HY)000003	LC FILTER	1	
L3526	ELJPA100KB	CHIP INDUCTOR	1	(HX)
L3526	J0HA(HY)000003	LC FILTER	1	(HY)
L3527-29	J0HA(HY)000004	LC FILTER	3	
L3530,31	J0HA(HY)000003	LC FILTER	2	
L3532,33	ELJPA100KB	CHIP INDUCTOR	2	
L3555	ELJPA100KB	CHIP INDUCTOR	1	
L6431	J0JJC0000021	CHIP INDUCTOR	1	
L6451	J0JJC0000021	CHIP INDUCTOR	1	
L6471	J0JJC0000021	CHIP INDUCTOR	1	
L6472	G0ZZ00002183	PEAKING COIL	1	
L6607	J0JJC0000021	CHIP INDUCTOR	1	
L6609	G0ZZ00002183	PEAKING COIL	1	
L6611,12	G0A1R0L00001	CHOKE COIL	2	
L6614,15	G0A1R0L00001	CHOKE COIL	2	
L6618-37	G0ZZ00002183	PEAKING COIL	20	
L6644,45	G0ZZ00002183	PEAKING COIL	2	
L6650,51	G0ZZ00002183	PEAKING COIL	2	
L6661,62	J0JJC0000011	CHIP INDUCTOR	2	
L6701,02	G0A1R0L00001	CHOKE COIL	2	
L6704,05	G0A1R0L00001	CHOKE COIL	2	
L6713	G0ZZ00002183	PEAKING COIL	1	
L6714	G0C101K00023	PEAKING COIL	1	
L6715-37	G0ZZ00002183	PEAKING COIL	23	
L6752-55	G0ZZ00002183	PEAKING COIL	4	
L6758,59	J0JJC0000021	CHIP INDUCTOR	2	
L6761,62	J0JJC0000011	CHIP INDUCTOR	2	
L7107	ELKE103FA	NOISE FILTER	1	
L7307,08	ELKE103FA	NOISE FILTER	2	
L7507,08	ELKE103FA	NOISE FILTER	2	
L7707	ELKE103FA	NOISE FILTER	1	
L8001-07	ELJPA100KB	CHIP INDUCTOR	7	
L8501,02	G0A2R5H00003	CHOKE COIL	2	
L9001-03	ELKE103FA	NOISE FILTER	3	
L9008-10	ELKE103FA	NOISE FILTER	3	
L9309	ELJFA1R0KF	CHIP COIL	1	
L9452	ELJFA1R0KF	CHIP COIL	1	
L9459	ELKE103FA	NOISE FILTER	1	
L9701	ELKE103FA	NOISE FILTER	1	
L9951-54	ELKE103FA	NOISE FILTER	4	
L9955	G1C470M00012	INDUCTOR COIL	1	
L9956	G1C1R5Z00002	INDUCTOR COIL	1	
PF1	K1KA03A00181	3P CONNECTOR	1	
PF9	K1KA03A00181	3P CONNECTOR	1	
PF10	K1KA06A00220	6P CONNECTOR	1	
Q903	2SD1328	TRANSISTOR	1	2SD132806
Q1540	2SD601A	TRANSISTOR	1	2SD0601A
Q2301-03	2SD601A	TRANSISTOR	3	2SD0601A
Q2305,06	2SD601A	TRANSISTOR	2	2SD0601A
Q2330,31	2SD1266A	TRANSISTOR	2	2SD1266AJ
Q2333,34	2SD601A	TRANSISTOR	2	2SD0601A
Q2370	2SB709A	TRANSISTOR	1	2SB0709A

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q2406	2SD601A	TRANSISTOR	1	2SD0601A
Q2408	2SD601A	TRANSISTOR	1	2SD0601A
Q2410	2SD601A	TRANSISTOR	1	2SD0601A
Q3001	2SB709A	TRANSISTOR	1	2SB0709A
Q3002-05	2SD601A	TRANSISTOR	4	2SD0601A
Q3007	2SB709A	TRANSISTOR	1	2SB0709A
Q3023	2SD601A	TRANSISTOR	1	2SD0601A
Q3051,52	2SD601A	TRANSISTOR	2	2SD0601A
Q3101	2SB709A	TRANSISTOR	1	2SB0709A (HY)
Q3101	2SD601A	TRANSISTOR	1	2SD0601A (J)
Q3102	2SD1030	TRANSISTOR	1	(HY)
Q3102	2SD601A	TRANSISTOR	1	2SD0601A (J)
Q3103	2SD1030	TRANSISTOR	1	(HY)
Q3103	2SD601A	TRANSISTOR	1	2SD0601A (J)
Q3104	2SD1030	TRANSISTOR	1	(HY)
Q3104-06	2SD601A	TRANSISTOR	3	2SD0601A (J)
Q3401	2SD601A	TRANSISTOR	1	2SD0601A
Q3403	2SD601A	TRANSISTOR	1	2SD0601A
Q3501	2SD601A	TRANSISTOR	1	2SD0601A
Q3502	2SB709A	TRANSISTOR	1	2SB0709A
Q3503-05	2SD601A	TRANSISTOR	3	2SD0601A
Q3506	2SB709A	TRANSISTOR	1	2SB0709A
Q3531,32	2SD601A	TRANSISTOR	2	2SD0601A
Q6431	B1(HY)CJ000003	TRANSISTOR	1	
Q6432	2SB709A	TRANSISTOR	1	2SB0709A
Q6435	2SD601A	TRANSISTOR	1	2SD0601A
Q6451	B1(HY)CJ000003	TRANSISTOR	1	
Q6452	2SB709A	TRANSISTOR	1	2SB0709A
Q6454	2SD814A	TRANSISTOR	1	
Q6455	2SD601A	TRANSISTOR	1	2SD0601A
Q6471	B1(HY)CJ000003	TRANSISTOR	1	
Q6472	2SB709A	TRANSISTOR	1	2SB0709A
Q6474	2SD814A	TRANSISTOR	1	
Q6475-77	2SD601A	TRANSISTOR	3	2SD0601A
Q6491,92	2SC1473A	TRANSISTOR	2	2SC1473AE
Q6501-04	2SK620	FET	4	2SK0620
Q6511,12	B1DFGL000005	TRANSISTOR	2	
Q6520	2SD601A	TRANSISTOR	1	2SD0601A
Q6521	B1DFES000001	TRANSISTOR	1	
Q6523	2SB1073001TV	TRANSISTOR	1	
Q6524,25	2SD2185	TRANSISTOR	2	
Q6526	2SB1073001TV	TRANSISTOR	1	
Q6530-39	2SK349400L	FET	10	
Q6540-49	2SK373100L	TRANSISTOR	10	
Q6550	2SC1473A	TRANSISTOR	1	2SC1473AE
Q6551	2SD601A	TRANSISTOR	1	2SD0601A
Q6552	B1DADU000001	TRANSISTOR	1	
Q6554,55	2SK349400L	FET	2	
Q6556,57	2SK373100L	TRANSISTOR	2	
Q6561	2SB1073001TV	TRANSISTOR	1	
Q6562-64	B1DFES000001	TRANSISTOR	3	
Q6581	2SD601A	TRANSISTOR	1	2SD0601A
Q6601-08	2SK3559000SQ	TRANSISTOR	8	
Q6611	2SD2185	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q6612	2SB1073001TV	TRANSISTOR	1	
Q6613	2SD2185	TRANSISTOR	1	
Q6614	2SB1073001TV	TRANSISTOR	1	
Q6616,17	2SK620	FET	2	2SK0620
Q6621,22	2SK3637000VE	TRANSISTOR	2	
Q6624,25	2SK3637000VE	TRANSISTOR	2	
Q6627	2SD2185	TRANSISTOR	1	
Q6628	2SB1073001TV	TRANSISTOR	1	
Q6629	2SD2185	TRANSISTOR	1	
Q6630	2SB1073001TV	TRANSISTOR	1	
Q6701	2SD2185	TRANSISTOR	1	
Q6702	2SB1073001TV	TRANSISTOR	1	
Q6711-18	2SK3559000SQ	TRANSISTOR	8	
Q6721-24	2SK3637000VE	TRANSISTOR	4	
Q6725	2SK620	FET	1	2SK0620
Q6727,28	2SK3192000LB	FET	2	
Q6729,30	2SK326800L	FET	2	
Q6731	2SD1263A	TRANSISTOR	1	
Q6732	2SD2185	TRANSISTOR	1	
Q6733	2SB1073001TV	TRANSISTOR	1	
Q6734	2SD2185	TRANSISTOR	1	
Q6735	2SB1073001TV	TRANSISTOR	1	
Q6738,39	2SC1473A	TRANSISTOR	2	2SC1473AE
Q6741	2SD601A	TRANSISTOR	1	2SD0601A
Q6744	2SD2185	TRANSISTOR	1	
Q6745	2SB1073001TV	TRANSISTOR	1	
Q7561,62	2SB709A	TRANSISTOR	2	2SB0709A
Q8001,02	2SD601A	TRANSISTOR	2	2SD0601A
Q8010	2SD601A	TRANSISTOR	1	2SD0601A
Q8011	2SB709A	TRANSISTOR	1	2SB0709A
Q8012	2SD601A	TRANSISTOR	1	2SD0601A
Q8013	2SB709A	TRANSISTOR	1	2SB0709A
Q9001,02	2SD601A	TRANSISTOR	2	2SD0601A
Q9301	2SD601A	TRANSISTOR	1	2SD0601A
Q9400	2SD601A	TRANSISTOR	1	2SD0601A
Q9591-94	2SD601A	TRANSISTOR	4	2SD0601A
Q9596-99	2SD601A	TRANSISTOR	4	2SD0601A
Q9601,02	2SD601A	TRANSISTOR	2	2SD0601A
Q9701	2SD601A	TRANSISTOR	1	2SD0601A
Q9702	2SB1440	TRANSISTOR	1	2SB14400H
Q9703,04	2SK620	FET	2	2SK0620
Q9706	2SK620	FET	1	2SK0620
Q9707	2SB709A	TRANSISTOR	1	2SB0709A
Q9708,09	2SD601A	TRANSISTOR	2	2SD0601A
Q9710	2SB709A	TRANSISTOR	1	2SB0709A
Q9714-16	2SD601A	TRANSISTOR	3	2SD0601A
Q9719	2SK620	FET	1	2SK0620
R803	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R805	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R806,07	ERJ6ENF15R0	M 15 OHM, 1/10W	2	
R808	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R809	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R810	ERJ6ENF5100	M 510 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R901,02	ERC12ZGK105	S 1MOHM, K,1/2W	2	⚠
R903	ERF7TK3R3	W 3.3 OHM, K, 7W	1	
R904	ERG2FJS683D	M 68KOHM, J, 2W	1	
R905	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R906	ERDS1FJ3R3	C 3.3 OHM, J,1/2W	1	
R907	ERJ6GEYJ120	M 12 OHM,J,1/10W	1	
R920	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R921	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R922	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R923	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R924	ERJ6ENF2402	M 24KOHM, 1/10W	1	
R925	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R926	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R927	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R928	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R951,52	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R1001,02	ERJ6GEYJ560	M 56 OHM,J,1/10W	2	
R1003	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1500	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R1510	ERJ3GEYF222	M 2.2KOHM, 1/16W	1	
R1511	ERJ3GEYF332	M 3.3KOHM, 1/16W	1	
R1512,13	ERJ3GEYF472	M 4.7KOHM, 1/16W	2	
R1550	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R1551	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R1552	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R1553	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R1554	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R1555,56	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R2301	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2304	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2305,06	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R2309	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2310	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2319,20	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R2321	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2324,25	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R2331	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2332	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2333	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2341	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2343	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2346	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2347	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2348	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2350	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2351-54	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R2355-60	ERDS1FJ2R2	C 2.2 OHM, J,1/2W	6	
R2365,66	ERX1FJSR56D	M0.56 OHM, J, 1W	2	
R2367	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R2368,69	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2370	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R2371,72	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R2373	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2408	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2410	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2431	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2434	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2438	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2439	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R2440	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2441	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2445	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2448	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2450	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R2452	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2453	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2456	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2457	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R2460	ERJ6ENF1802	M 18KOHM, 1/10W	1	
R2461,62	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R2463	ERJ6ENF1502	M 15KOHM, 1/10W	1	
R2464	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2466	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2467	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R2468	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2469	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2470	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2471	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2472	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2473	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2476,77	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R2480	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2481,82	ERJ6GEYJ153	M 15KOHM,J,1/10W	2	
R2483	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2484	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R2485	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3001	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3001	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HY)
R3002	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(J)
R3002	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HY)
R3003	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3003	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	(J)
R3004	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3005	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HY)
R3005	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	(J)
R3006	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3006	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	(J)
R3007	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	(HY)
R3007	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3008	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3008	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3009	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3010	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (J)
R3010	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(HY)
R3011	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3011	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(J)
R3012	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	ss
R3012	ERJ3GEYJ752	M 7.5KOHM,J,1/16W	1	(HY)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3013	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(J)
R3013	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	(HY)
R3014	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(J)
R3014	ERJ3GEYJ752	M 7.5KOHM,J,1/16W	1	(HY)
R3015	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	(HY)
R3015-22	J0JCC0000100	CHIP INDUCTOR	8	(J)
R3025	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3026	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3026	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	(HY)
R3027	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3027	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(HY)
R3028,29	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3030	J0JCC0000100	CHIP INDUCTOR	1	
R3031	ERJ3EKF1800	M 180 OHM, 1/16W	1	(HY)
R3031	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3032	ERJ3EKF6200	M 620 OHM, 1/16W	1	(HY)
R3032	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3033	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3033	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3034	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3035	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HY)
R3035,36	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	(J)
R3036	ERJ6ENF1800	M 180 OHM, 1/10W	1	(HY)
R3037	J0JCC0000100	CHIP INDUCTOR	1	
R3038	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	(HY)
R3038	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3039	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3040	ERJ3EKF3300	M 330 OHM, 1/16W	1	(HY)
R3040,41	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	(J)
R3042	ERJ3EKF6801	M 6.8KOHM, 1/16W	1	(HY)
R3042,43	J0JCC0000100	CHIP INDUCTOR	2	(J)
R3044	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3045	ERJ3EKF2200	M 220 OHM, 1/16W	1	(HY)
R3045	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3046	ERJ3EKF1000	M 100 OHM, 1/16W	1	(HY)
R3046	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3047	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HY)
R3047	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3048	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3048	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)
R3049	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HY)
R3049	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)
R3050	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3050	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HY)
R3051	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HY)
R3051	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)
R3052	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HY)
R3052	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)
R3053	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(HY)
R3053	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3054	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HY)
R3054	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3055	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(HY)
R3055	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3056	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HY)
R3056	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)
R3057	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3057	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3058	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3058	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3059	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3060	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HY)
R3060	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3061	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	(HY)
R3061	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3062	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R3063	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3064	ERJ6GEYJ560	M 56 OHM,J,1/10W	1	
R3065	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(HY)
R3065-69	ERJ6GEYJ560	M 56 OHM,J,1/10W	5	(J)
R3070-75	ERJ6ENF75R0	M 75 OHM, 1/10W	6	
R3076-81	ERJ6GEYJ560	M 56 OHM,J,1/10W	6	
R3082,83	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R3084,85	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3086,87	J0JCC0000100	CHIP INDUCTOR	2	
R3088-93	ERJ6ENF75R0	M 75 OHM, 1/10W	6	
R3094-96	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R3097,98	J0JCC0000100	CHIP INDUCTOR	2	
R3099,00	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3101	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HY)
R3101	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3102	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3102	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3103	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HY)
R3103	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3104	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HY)
R3104	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3105	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3105	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3106	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3106	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3107	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	(HY)
R3107	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3108	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3108	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3112	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	(HY)
R3112	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3113	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	(HY)
R3113	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3114	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3114	ERJ6ENF8200	M 820 OHM, 1/10W	1	(J)
R3115,02	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R3116	J0JCC0000100	CHIP INDUCTOR	1	
R3117	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HY)
R3117	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	(J)
R3118	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3118	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	(J)
R3119,02	ERJ3GEYJ121	M 120 OHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3120	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3121	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	(HY)
R3121	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3122	ERJ3EKF8201	M 8.2KOHM, 1/16W	1	(HY)
R3122	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3123	ERJ3EKF1502	M 15KOHM, 1/16W	1	(HY)
R3123	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3124	ERJ3EKF10R0	M 10 OHM, 1/16W	1	(HY)
R3124	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3125	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3125,26	ERJ6GEY0R00	M 0 OHM, 1/10W	2	(J)
R3127	ERJ6ENF12R0	M 12 OHM, 1/10W	1	(HY)
R3127	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3128,29	ERJ3GEYJ181	M 180 OHM,J,1/16W	2	(J)
R3129	ERJ6ENF12R0	M 12 OHM, 1/10W	1	(HY)
R3130,31	ERJ3GEYJ181	M 180 OHM,J,1/16W	2	(HY)
R3131	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(J)
R3132,33	ERJ3GEYJ181	M 180 OHM,J,1/16W	2	
R3135	ERJ6ENF10R0	M 10 OHM, 1/10W	1	
R3136-39	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R3140	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HY)
R3140	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	(J)
R3141	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3141	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	(J)
R3142,43	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3144,45	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R3148,49	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3151	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R3152	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R3153	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3154,55	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R3156	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R3157	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3158	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R3159	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3160	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	(HY)
R3160	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	(J)
R3161	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	(HY)
R3161	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	(J)
R3162,63	ERJ3EKF2701	M 2.7KOHM, 1/16W	2	
R3164-67	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R3168	ERJ3EKF2000	M 200 OHM, 1/16W	1	
R3169-72	ERJ6ENF75R0	M 75 OHM, 1/10W	4	
R3173	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R3174	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3177	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3178	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3179	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3180	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3181	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3182	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3183	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3184	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3185	ERJ6GEY0R00	M 0 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3188	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R3189	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3189	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(J)
R3190	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3190	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(J)
R3191	ERJ14YJ330	M 33 OHM, J,1/4W	1	(J)
R3191	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3192-94	ERJ14YJ330	M 33 OHM, J,1/4W	3	
R3195,96	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3197,98	ERJ3GEYJ123	M 12KOHM,J,1/16W	2	
R3199-01	ERJ6ENF1800	M 180 OHM, 1/10W	3	
R3202	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3202	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3203	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3203	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3204	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3204	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3205-07	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R3210,11	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3212-15	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	4	
R3216-19	ERJ6GEYJ3R3	M 3.3KOHM,J,1/10W	4	
R3230,31	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3251	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3252	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3253	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	(HY)
R3253	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3254	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R3255	ERJ6ENF8200	M 820 OHM, 1/10W	1	
R3256	J0JCC0000100	CHIP INDUCTOR	1	
R3257	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R3259	J0JCC0000100	CHIP INDUCTOR	1	
R3260-62	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R3297,98	J0JCC0000100	CHIP INDUCTOR	2	
R3300,01	ERJ3EKF1501	M 1.5KOHM, 1/16W	2	
R3302	ERJ3GEYJ203	M 20KOHM,J,1/16W	1	
R3303,04	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3305-09	ERJ3GEYJ103	M 10KOHM,J,1/16W	5	
R3313,14	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3317,18	ERJ3GEYJ333	M 33KOHM,J,1/16W	2	
R3334	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3337,38	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3400	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3401	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R3402	ERJ3EKF1801	M 1.8KOHM, 1/16W	1	
R3403	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R3404	ERJ3EKF1801	M 1.8KOHM, 1/16W	1	
R3405	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R3406	ERJ3EKF1801	M 1.8KOHM, 1/16W	1	
R3407	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R3408	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3409	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R3410	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R3411	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3412	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3413	ERJ3EKF1800	M 180 OHM, 1/16W	1	
R3418	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3501,02	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3506-09	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	4	
R3510,11	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3514-17	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	D0GB101JA002
R3521,22	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R3525-28	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R3529	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3529	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	(HX)
R3530	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3530	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	(HX)
R3531,32	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	2	
R3535,36	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R3538,39	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R3544,45	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R3546,02	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	2	
R3547,48	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3585,86	ERJ6GEYJ560	M 56 OHM,J,1/10W	2	
R3589	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3590	ERJ6GEYJ560	M 56 OHM,J,1/10W	1	
R3591-93	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R3653	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3654	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3655	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3656	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3663,64	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R3668	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3672	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3776,77	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3778	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3790,91	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6401-06	ERJ6GEYJ221	M 220 OHM,J,1/10W	6	
R6411-14	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R6415,16	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6421-26	ERJ6GEYJ221	M 220 OHM,J,1/10W	6	
R6431	ERJ12YJ1R0	M 1 OHM, J,1/2W	1	(SC)
R6431	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	(SD)
R6432	ERJ12YJ1R0	M 1 OHM, J,1/2W	1	(SC)
R6432,33	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	(SD)
R6433	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	(SC)
R6434	ERDS1FJ221	C 220 OHM, J,1/2W	1	(SC)
R6434	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6435	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	(SD)
R6435	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	(SC)
R6436	ERJ6ENF1543	M 154KOHM, 1/10W	1	(SC)
R6436	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	(SD)
R6437	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6438	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R6439-41	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R6442	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6443	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6449,50	ERJ12YJ1R0	M 1 OHM, J,1/2W	2	
R6453	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6454	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R6455	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6456	ERJ6ENF4533	M 453KOHM, 1/10W	1	
R6457,58	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R6459	ERJ14YJ104	M 100KOHM, J,1/4W	1	
R6460	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6462	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6464	ERG2FJS273D	M 27KOHM, J, 2W	1	
R6465	ERX2FJS8R2D	M 8.2 OHM, J, 2W	1	
R6467	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R6468	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6470,71	ERJ6GEYJ333	M 33KOHM,J,1/10W	2	
R6472	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6473	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6474	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R6475	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6476	ERJ6ENF3243	M 324KOHM, 1/10W	1	
R6477	EVMEASA00B53	CONTROL 5KOHMB 0.3W	1	
R6478	ERJ6ENF6981	M6.98KOHM, 1/10W	1	
R6479	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6480	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6481	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R6482	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6483	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R6484	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6485,86	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6487	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6488	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6489	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6490	ERJ12YJ1R0	M 1 OHM, J,1/2W	1	
R6491	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6492,93	ERJ6ENF2203	M 220KOHM, 1/10W	2	
R6494,95	ERJ6ENF5231	M5.23KOHM, 1/10W	2	
R6496	ERJ12YJ1R0	M 1 OHM, J,1/2W	1	
R6497	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6498,99	ERX1FJS8R2D	M 8.2 OHM, J, 1W	2	
R6500	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R6501-09	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	9	
R6510	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6511,12	ERX3FJS2R2D	M 2.2 OHM, J, 3W	2	
R6513	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6514	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6515	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6516	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6517	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6518	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6519	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6520	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6521	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6522	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6524	ERJ6ENF1801	M 1.8KOHM, 1/10W	1	
R6525	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6526	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6527	ERJ14YJ102	M 1KOHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6528	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6529	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6530-39	ERJ6GEYJ470	M 47 OHM,J,1/10W	10	
R6540-49	ERJ6GEYJ100	M 10 OHM,J,1/10W	10	
R6550	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6551	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6552	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6553	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6554,55	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6556	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R6557	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R6558	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6559	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6560,61	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6562-64	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	3	
R6565	ERG1FJS332D	M 3.3KOHM, J, 1W	1	
R6566-68	ERJ6ENF1003	M 100KOHM, 1/10W	3	
R6569	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R6570	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R6571-78	ERJ6GEYJ471	M 470 OHM,J,1/10W	8	
R6579	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6580	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6581	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6582,83	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6584	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6585,86	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R6587	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6588	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6589	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6590,91	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6592,93	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6594	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6595,96	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R6599	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6600	ERD25V0T	M OHM, 1/10W	1	
R6601	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6603	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6604	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6605-07	ERJ6GEYJ224	M 220KOHM,J,1/10W	3	
R6608	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6609,10	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6611-18	ERJ6GEYJ100	M 10 OHM,J,1/10W	8	
R6619-22	ERJ6GEYJ470	M 47 OHM,J,1/10W	4	
R6625	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6626	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6627	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6628	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6629,30	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6631-38	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	8	
R6641,42	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6643	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6644,45	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6646,47	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R6648-50	ERJ6GEYJ102	M 1KOHM,J,1/10W	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6657-59	ERJ6GEYJ102	M 1KOHM,J,1/10W	3	
R6687,88	ERX2FJSR22D	M0.22 OHM, J, 2W	2	
R6689,90	ERJ12YJ220	M 22 OHM,J, 1/2W	2	
R6691	EXB38V471J	RESISTOR ARRAY	1	
R6692	EXB38V473J	RESISTOR ARRAY	1	
R6693	EXB38V471J	RESISTOR ARRAY	1	
R6694	EXB38V473J	RESISTOR ARRAY	1	
R6695	EXB38V471J	RESISTOR ARRAY	1	
R6696	EXB38V473J	RESISTOR ARRAY	1	
R6697	EXB38V471J	RESISTOR ARRAY	1	
R6698	EXB38V473J	RESISTOR ARRAY	1	
R6700	ERD25V0T	M OHM, 1/10W	1	
R6701-03	ERX3FJSR22D	M 2.2 OHM, J, 3W	3	
R6704	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6705,06	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R6707	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6710	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6711-18	ERJ6GEYJ100	M 10 OHM,J,1/10W	8	
R6719-22	ERJ6GEYJ470	M 47 OHM,J,1/10W	4	
R6725	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6726	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6727	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6728	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6729,30	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6731-38	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	8	
R6741,42	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6744	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6747	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6750	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6751,52	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6753	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6754	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6755,56	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6757	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6758	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6759	ERJ12YJ470	M 47 OHM, J,1/2W	1	
R6760	ERG1FJS472D	M 4.7KOHM, J, 1W	1	
R6761	ERG2FJS123D	M 12KOHM, J, 2W	1	
R6762	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6763	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6764	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6765,66	ERJ6GEYJ333	M 33KOHM,J,1/10W	2	
R6767	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6769	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6770	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R6772	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R6775	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6776	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6777,78	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6779	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6780,81	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R6782	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6783	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6784	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6785	EXB38V471J	RESISTOR ARRAY	1	
R6786	EXB38V473J	RESISTOR ARRAY	1	
R6787	EXB38V471J	RESISTOR ARRAY	1	
R6788	EXB38V473J	RESISTOR ARRAY	1	
R6789,90	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6801-08	ERJ6GEYJ680	M 68 OHM,J,1/10W	8	
R6815	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6817,18	ERX2FJSR22D	M0.22 OHM, J, 2W	2	
R6823,24	ERJ12YJ220	M 22 OHM,J, 1/2W	2	
R6830	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6850	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7105	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7106	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7107	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7108	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7109	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7111-22	ERJ14YJ220	M 22 OHM, J,1/4W	12	
R7141-44	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
R7147	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7148	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7158-65	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7174-81	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7190-97	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7199-02	ERJ14YJ220	M 22 OHM, J,1/4W	4	
R7208-11	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7212-15	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7216-19	ERJ3GEYJ121	M 120 OHM,J,1/16W	4	
R7220-23	ERJ3GEYJ181	M 180 OHM,J,1/16W	4	
R7224-27	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R7229,30	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7236	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7305	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7306	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7307	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7308	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7309	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7311-18	ERJ14YJ220	M 22 OHM, J,1/4W	8	
R7333-37	ERJ14YJ220	M 22 OHM, J,1/4W	5	
R7347	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7348	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7358-65	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7368,69	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7374-81	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7386,87	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7389	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R7390-97	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7398-00	ERJ3GEYJ220	M 22 OHM,J,1/16W	3	
R7401-04	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7406,07	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7410-13	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R7417	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7418-20	ERJ14YJ220	M 22 OHM, J,1/4W	3	
R7421-23	ERJ3GEYJ181	M 180 OHM,J,1/16W	3	
R7424-27	ERJ3GEYJ121	M 120 OHM,J,1/16W	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7428	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R7505	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7506	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7507	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7508	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7510	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7511-18	ERJ14YJ220	M 22 OHM, J,1/4W	8	
R7533-37	ERJ14YJ220	M 22 OHM, J,1/4W	5	
R7541-44	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R7547	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7548	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7558-65	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7568,69	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7574-81	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7586,87	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7589	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R7590-97	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7598-00	ERJ3GEYJ220	M 22 OHM,J,1/16W	3	
R7601-04	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7606-09	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R7612	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7614,15	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7618-20	ERJ14YJ220	M 22 OHM, J,1/4W	3	
R7621-23	ERJ3GEYJ181	M 180 OHM,J,1/16W	3	
R7624-27	ERJ3GEYJ121	M 120 OHM,J,1/16W	4	
R7628	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R7705	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7706	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7707	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7708	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7710	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7711-22	ERJ14YJ220	M 22 OHM, J,1/4W	12	
R7747	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7748	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7758-65	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7766-69	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7770-73	ERJ3GEYJ121	M 120 OHM,J,1/16W	4	
R7774-81	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7790-97	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7799	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7801	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7803	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7806-09	ERJ14YJ220	M 22 OHM, J,1/4W	4	
R7810-13	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7814-17	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
R7818-21	ERJ3GEYJ181	M 180 OHM,J,1/16W	4	
R7823-26	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R8001-16	J0JCC0000100	CHIP INDUCTOR	16	
R8017-20	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	4	
R8021-24	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	4	
R8025-28	ERJ3GEYJ331	M 330 OHM,J,1/16W	4	
R8029,30	ERJ6ENF3301	M 3.3KOHM, 1/10W	2	
R8031,32	ERJ6ENF2201	M 2.2KOHM, 1/10W	2	
R8033,34	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8035,36	ERJ6ENF3301	M 3.3KOHM, 1/10W	2	
R8037-40	ERJ6ENF4701	M 4.7KOHM, 1/10W	4	
R8041,42	ERJ3GEYJ183	M 18KOHM,J,1/16W	2	
R8043,44	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R8045,46	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R8047	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R8048-51	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	4	
R8054-59	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R8060,61	ERJ6ENF3301	M 3.3KOHM, 1/10W	2	
R8062	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R8065-70	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R8071,72	J0JCC0000100	CHIP INDUCTOR	2	
R8077-82	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	6	
R8083-85	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R8087	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8089	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8091	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8093,94	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R8095,96	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R8097-00	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R9001	EXB38V470J	RESISTOR ARRAY	1	
R9002,03	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9004	EXB38V470J	RESISTOR ARRAY	1	
R9005	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9006	EXB38V470J	RESISTOR ARRAY	1	
R9007-09	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9010	EXB38V470J	RESISTOR ARRAY	1	
R9011	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9012	EXB38V470J	RESISTOR ARRAY	1	
R9014	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9015	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9016	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9017	EXB38V470J	RESISTOR ARRAY	1	
R9018-20	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9022-24	ERJ3GEYJ750	M 75 OHM,J,1/16W	3	
R9025	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9026	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9027	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9028	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9029	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9030	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9031	EXB38V470J	RESISTOR ARRAY	1	
R9032,33	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9034	EXB38V470J	RESISTOR ARRAY	1	
R9035	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9036	EXB38V470J	RESISTOR ARRAY	1	
R9037-39	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9040	EXB38V470J	RESISTOR ARRAY	1	
R9042	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9043	EXB38V470J	RESISTOR ARRAY	1	
R9044	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9045	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9046	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9047	EXB38V470J	RESISTOR ARRAY	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9050-53	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9054-56	ERJ3GEYJ750	M 75 OHM,J,1/16W	3	
R9057	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9058	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9059	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9060	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9061	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9062	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9063	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9104-07	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9108-10	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R9111-13	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9114,15	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R9117-20	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
R9122,23	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R9130-35	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R9151-55	EXB2HVR000	RESISTOR ARRAY	5	
R9157	EXB2HVR000	RESISTOR ARRAY	1	
R9167,68	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9171,72	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9176	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9177	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9178,79	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9180	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9182	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9183	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R9184	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9187	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9190	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9191	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9199	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9202	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9203	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9204,05	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9211-15	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9216	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9218	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9219	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9220,21	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	
R9224	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R9226	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9228	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9229,30	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9231	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R9232	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9234	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9236	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9240,41	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R9244,45	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9302	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9304	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9309	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9310	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9311	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9312-14	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R9315	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9317	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9318-21	EXB38V470J	RESISTOR ARRAY	4	
R9322	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9323,24	EXB38V680J	RESISTOR ARRAY	2	
R9325	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9327	EXB38V680J	RESISTOR ARRAY	1	
R9328	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9329,30	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9331	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9332	EXB38V680J	RESISTOR ARRAY	1	
R9335	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9336	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9337	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9338	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9339	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9341,42	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R9346	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9347,48	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9349	EXB38V680J	RESISTOR ARRAY	1	
R9350	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9351	EXB38V680J	RESISTOR ARRAY	1	
R9352	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9354	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9355	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9357	EXB38V680J	RESISTOR ARRAY	1	
R9359	EXB38V680J	RESISTOR ARRAY	1	
R9362	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9363	EXB38V680J	RESISTOR ARRAY	1	
R9365	EXB38V680J	RESISTOR ARRAY	1	
R9367	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9368,69	EXB38V680J	RESISTOR ARRAY	2	
R9371	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9373-75	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9376	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9377-79	EXB2HVR000	RESISTOR ARRAY	3	
R9380	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9385	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9386	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9388	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9389,90	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9391,92	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9393-96	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R9397,98	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9399,00	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9401,02	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9403	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9405	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9408	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9411	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9413	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9414,15	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9417	ERJ6GEY0R00	M 0 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9420	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9421	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9425	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9431	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9435	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9437	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9439-41	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9443-45	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9447	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9449	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9455	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9457	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9459	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9460-62	ERJ3GEYJ100	M 10 OHM,J,1/16W	3	
R9463	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9465,66	EXB2HVR000	RESISTOR ARRAY	2	
R9467	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9468	EXB2HVR000	RESISTOR ARRAY	1	
R9469,70	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9475	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9476	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9477,78	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9479	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9480,81	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9483	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9484,85	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9486,87	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9488,89	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9490,91	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9492-95	EXB38VR000	RESISTOR ARRAY	4	
R9496	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9498	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9501	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9503	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9504	EXB38V103J	RESISTOR ARRAY	1	
R9506	EXB38V103J	RESISTOR ARRAY	1	
R9509-13	ERJ3GEYJ103	M 10KOHM,J,1/16W	5	
R9514	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9515	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9516,17	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9518-27	EXB38V680J	RESISTOR ARRAY	10	
R9528	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9529,30	EXB38V680J	RESISTOR ARRAY	2	
R9532-37	ERJ3GEYJ470	M 47 OHM,J,1/16W	6	
R9538,39	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9540	EXB38V470J	RESISTOR ARRAY	1	
R9541,42	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9543	EXB38V470J	RESISTOR ARRAY	1	
R9544,45	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R9547	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9548	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9550,51	EXB38V470J	RESISTOR ARRAY	2	
R9552	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9553	EXB38V680J	RESISTOR ARRAY	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9554	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9556-58	ERJ3GEYJ151	M 150 OHM,J,1/16W	3	
R9559	EXB38V470J	RESISTOR ARRAY	1	
R9560	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9561	EXB38V470J	RESISTOR ARRAY	1	
R9562	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9563	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9564	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9565	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9567	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9569	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9577	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9585	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9586	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9592	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9593	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9594	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9595	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9596	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9597	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9600-05	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
R9607-17	ERJ3GEY0R00	M 0 OHM, 1/16W	11	
R9618	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9620,21	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9622,23	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9624	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9625	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R9627-29	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9631-35	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9637,38	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9640,41	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9642	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9643	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9645	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9646	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9647	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9648	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9650-53	EXB38V103J	RESISTOR ARRAY	4	
R9654-56	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9658	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9659-61	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	3	
R9662	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9663-69	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	7	
R9670-79	ERJ3GEY0R00	M 0 OHM, 1/16W	10	
R9682-90	ERJ3GEY0R00	M 0 OHM, 1/16W	9	
R9692	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9693	EXB38V103J	RESISTOR ARRAY	1	
R9694-00	ERJ3GEY0R00	M 0 OHM, 1/16W	7	
R9701	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9702	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	ERJ3GEYJ680V
R9703-08	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R9709	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9710-16	ERJ3GEYJ151	M 150 OHM,J,1/16W	7	
R9717,18	ERJ3GEY0R00	M 0 OHM, 1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9719-24	ERJ3GEYJ151	M 150 OHM,J,1/16W	6	
R9725	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9727	EXB38VR000	RESISTOR ARRAY	1	
R9728	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9729-32	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	D0GB101JA002
R9733	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9734	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9735	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9736	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9737	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9738,39	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9741	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9743	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9745	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9747	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9748	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9749	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9750	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9751	EXB38V103J	RESISTOR ARRAY	1	
R9753	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9754	EXB38V272J	RESISTOR ARRAY	1	
R9755,56	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9757	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9758	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9759	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9760	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9761	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9762	EXB38V103J	RESISTOR ARRAY	1	
R9763	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9765	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9766	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9767	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9768	EXB38V470J	RESISTOR ARRAY	1	
R9769	EXB38VR000	RESISTOR ARRAY	1	
R9770	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9771	EXB38VR000	RESISTOR ARRAY	1	
R9773	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9774-76	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9777	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9779	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9781	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9782	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9783,84	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9785,86	EXB38VR000	RESISTOR ARRAY	2	
R9787	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9788	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9789	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9790	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R9791	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9794	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9795	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R9798,99	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9800	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9803,04	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9805	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9806	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9807,08	EXB38V103J	RESISTOR ARRAY	2	
R9810,11	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9814	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9816	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9817	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9818,19	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9820	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9823,24	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9825	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9826	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9827	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9828	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9829	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9830	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9831,32	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9833	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9834,35	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9836	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9837	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9838	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9839,40	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9843,44	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9846,47	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9848	EXB38V103J	RESISTOR ARRAY	1	
R9849,50	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9851	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9852,53	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9855	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9856	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9857	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9858	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9859	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9860	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9861	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9864	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9865	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9868	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9869	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9871	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9872	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9873	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9874,75	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9876	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9878-80	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9882,83	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9885	EXB38V103J	RESISTOR ARRAY	1	
R9886	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9887,88	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9889	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9890	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9891	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9893-96	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9897	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9898	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9900	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9901	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9903	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9905	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9906	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9907	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9908	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9909	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9910	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9913	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R9914	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9916	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9917	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9918	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9919	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R9920	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R9921-23	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9924	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9925	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9930	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9931	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9932	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9933	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9934	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9935,36	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9937	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9939	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9940	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9941	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9942	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9943	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9944	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9945,46	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9947	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9948,49	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9951,52	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9954-57	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9959,60	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9961	ERJ6ENF1621	M1.62KOHM, 1/10W	1	
R9962	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9963	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9964	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9965	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9966	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9969	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9970	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9971	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9972	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9975	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9976	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9979	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9996	ERJ6GEY0R00	M 0 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9998	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
RL901	K6B2ADA00007	REALY	1	⚠
RM001	PNA4601M05TV	REMOCO RECEIVER	1	
RTL	TNPA3003	CIRCUIT BOARD H3	1	⚠
RTL	TNPA2826	CIRCUIT BOARD J	1	⚠
RTL	TZTNP020QJS	CIRCUIT BOARD HX	1	⚠
RTL	TXNHY10QBS	CIRCUIT BOARD HY	1	⚠
RTL	TNPA2815	CIRCUIT BOARD Z	1	⚠
RTL	TXNPF10QBS	CIRCUIT BOARD PF	1	⚠
RTL	TNPA2889	CIRCUIT BOARD P	1	⚠
RTL	TNPA2909	CIRCUIT BOARD SU	1	⚠
RTL	TNPA2910	CIRCUIT BOARD SD	1	⚠
RTL	TNPA2899	CIRCUIT BOARD C1	1	⚠
RTL	TNPA2900	CIRCUIT BOARD C2	1	⚠
RTL	TNPA2901	CIRCUIT BOARD C3	1	⚠
RTL	TNPA2902	CIRCUIT BOARD C4	1	⚠
RTL	TZTNP01QJSU	CIRCUIT BOARD D	1	⚠
RTL	TXNSC10QJS	CIRCUIT BOARD SC	1	⚠
RTL	TXNSS10QJS	CIRCUIT BOARD SS	1	⚠
RTL	TNPA2916	CIRCUIT BOARD SS2	1	⚠
RTL	TNPA2917	CIRCUIT BOARD SS3	1	⚠
RTL	TNPA2868AB	CIRCUIT BOARD S1	1	⚠
RTL	TXNV110QJS	CIRCUIT BOARD V1	1	⚠
S061	K0F162B00002	SWITCH	1	
S1550-54	EVQPBD05R	SWITCH	5	
SC2	K1KA06A00180	6P CONNECTOR	1	
SC20	K1KA20A00180	20P CONNECTOR	1	
SC23	K1KA03A00213	3P CONNECTOR	1	
SC41-44	K1KB40B00015	40P CONNECTOR	4	
SD1-D4	K1MN96B00001	CONNECTOR	4	
SS11-18	K1MN13B00020	13P CONNECTOR	8	
SS19	K1KB07A00037	7P CONNECTOR	1	
SS20,21	K1KA07A00170	7P CONNECTOR	2	
SS22	K1KB07A00037	7P CONNECTOR	1	
SS32	K1KA12A00176	12P CONNECTOR	1	
SS34	K1KA03A00213	3P CONNECTOR	1	
SS42	K1KA04A00242	4P CONNECTOR	1	
SS51	K1KA07A00096	7P CONNECTOR	1	
SS52	K1KA10A00259	10P CONNECTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
SU1-U4	K1MN96B00001	CONNECTOR	4	
T901	ETS28AZ1E6AD	SWITCHING TRANS	1	⚠
T6431	ETS13TB139AP	SWITCHING TRANS	1	
T6451	G4D1A0000072	SWITCHING TRANS	1	
T6471	G4D1A0000072	SWITCHING TRANS	1	
V34	K1KA08B00005	8P CONNECTOR	1	
X3101	H0J202500002	CRYSTAL	1	
X9302	H0J200500016	CRYSTAL	1	
X9350	H0J327200038	CRYSTAL	1	
X9701	H0J245500013	CRYSTAL	1	
X9702	H0J921400003	CRYSTAL	1	
X9703	H0J200500016	CRYSTAL	1	
Z5	K1KA11A00048	11P CONNECTOR	1	
Z6	K1KA04A00195	4P CONNECTOR	1	
Z7	K1KA03A00172	3P CONNECTOR	1	
Z8	K1KA20A00180	20P CONNECTOR	1	
ZA001-03	K4ZZ01000121	EARTH LUG	3	
ZA3001-08	K4ZZ01000121	EARTH LUG	8	
C401	F0CAF105A021	C 1UF, 250V	1	
C402	ECJ2XC1H101J	C 100PF, J, 50V	1	
C403	ECKCNA222MEB	C 2200PF, M	1	
C404	F0CAF105A021	C 1UF, 250V	1	
C407	EEUEB2W220B	E 22UF, 450V	1	
C408	F2A1H470A123	E 47UF, 50V	1	
C409	F0CAF105A021	C 1UF, 250V	1	
C410	F2A1H470A123	E 47UF, 50V	1	
C411	F2A1H100A123	E 10UF, 50V	1	
C412	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C413	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C416	F1J1V474A001	C 0.47UF, 35V	1	
C417	F2A1H100A123	E 10UF, 50V	1	
C419	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C421,22	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C423	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C424,25	ECJ3YB1E105K	C 1UF, K, 25V	2	
C426	ECJ2XC1H471J	C 470PF, J, 50V	1	
C427	F1J1A1050002	C 1UF, Z, 50V	1	
C428	ECJ2XC1H221J	C 220PF, J, 50V	1	
C429,30	F1K2J1530002	C 0.15PF, J,630V	2	
C431	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C432	F1J1C1050011	C 1UF, Z, 50V	1	
C436	F1J1C1050011	C 1UF, Z, 50V	1	
C440	F2A1H100A123	E 10UF, 50V	1	
C443,44	F1A3A102A040	C 1000PF, J, 1KV	2	
C445	F1J1C1050011	C 1UF, Z, 50V	1	
C446	F2B2W3310006	C 330UF, 450V	1	
C448	F2B2W3310006	C 330UF, 450V	1	
C449,50	F1A3A102A040	C 1000PF, J, 1KV	2	

[redacted]	[redacted]	[redacted]	[redacted]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C451	F1A3A101A040	C 100PF, J, 1KV	1	
C455	F1A3A221A040	C 220UF, 1KV	1	
C457	ECWH8203RHV	P 0.020PF, J, 8KV	1	
C458	ECWH8683RHV	P 0.068PF, J, 8KV	1	
C459	F1K2J1530002	C 0.15PF, J,630V	1	
C460,61	F1A3A331A039	C 330UF, 1KV	2	
C462	ECJ3YB1E105K	C 1UF, K, 25V	1	
C463	ECJ2XC1H220J	C 22UF, J, 50V	1	
C464	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C465	ECKDNA471KB7	C 470PF, Z,	1	ECKCNA471KB7
C501,02	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C503,04	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C506-08	ECJ2XB1H103K	C 0.01UF, K, 50V	3	
C509	F2A1E101A097	E 100UF 25V	1	
C511	F1J1C1050011	C 1UF, Z, 50V	1	
C513,14	ECJ2XC1H471J	C 470PF, J, 50V	2	
C515	EEUFC1A102	E 1000UF, 10V	1	
C516	F1J1A1050002	C 1UF, Z, 50V	1	
C517	EEUFC1A221	E 220UF, 10V	1	
C518	F2A1E470A097	E 47UF, 25V	1	
C521	F2A1H100A123	E 10UF, 50V	1	
C522	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C523	F2A1E101A097	E 100UF 25V	1	
C524	EEUEB1H220SB	E 22UF, 50V	1	
C525	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C526	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C527	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C528	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C529	F2A1E101A097	E 100UF 25V	1	
C530	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C531,32	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C534	ECJ2XC1H681J	C 680PF, J, 50V	1	
C535	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C536	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C537	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C538	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C539	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C540	ECJ2XC1H152J	C 1500PF, J, 50V	1	
C541	F1J1C1050011	C 1UF, Z, 50V	1	
C544	F1J1C1050011	C 1UF, Z, 50V	1	
C546	F2A1E101A097	E 100UF 25V	1	
C547	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C549	F1J2E1030004	C 0.1PF, J,250V	1	
C550	F2A1E681A099	E 680UF, 25V	1	
C552	F1J1C1050011	C 1UF, Z, 50V	1	
C553,54	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C555	ECA2AHG102	E 1000UF, 100V	1	
C556	F2A1C152A126	E 1500UF, 16V	1	
C557	F2A1E681A099	E 680UF, 25V	1	
C558	F2B2D1720001	E 1700UF,@ 200V	1	
C559	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C560	ECA2AHG102	E 1000UF, 100V	1	
C561	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C562	F2B2D1720001	E 1700UF,@ 200V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C565	F2A1E4710065	E 470UF, 25V	1	
C573	F1J1C1050011	C 1UF, Z, 50V	1	
C574	EEUFC0J122	E 1200UF, 6.3V	1	
C576	F2A1E470A097	E 47UF, 25V	1	
C577	F2A2A101A023	E 100UF, 100V	1	
C578	F2A1E470A097	E 47UF, 25V	1	
C579	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C580	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C581	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C583	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C585,86	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C587	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C598	F2A1E470A097	E 47UF, 25V	1	
C599	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C600,01	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C602	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C603,04	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C605	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C606	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C607	F1J1C1050011	C 1UF, Z, 50V	1	
C608,09	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
D401	B0F(HY)R000020	DIODE	1	
D402	MA4082M	ZENER DIODE	1	MAZ40820M
D404	S1WBA80Z	DIODE	1	
D408	MA4180M	ZENER DIODE	1	MAZ41800M
D409	B0HAMM000072	DIODE	1	
D410	MA188	DIODE	1	MA2C188
D411	B0(HY)17000006	DIODE	1	
D412	MA165	DIODE	1	MA2C165
D414	MA165	DIODE	1	MA2C165
D415	B0JAME000081	DIODE	1	
D418	MA4082M	ZENER DIODE	1	MAZ40820M
D419,20	B0HBRR000001	DIODE	2	
D421	MA4150M	ZENER DIODE	1	MAZ41500M
D423-26	B0JAME000081	DIODE	4	
D431	B0JCDD000002	DIODE	1	
D433,34	MA4051NM	ZENER DIODE	2	MAZ4051NM
D503,04	MA165	DIODE	2	MA2C165
D505,06	B0JAME000081	DIODE	2	
D507	MA165	DIODE	1	MA2C165
D510	B0HAMM000072	DIODE	1	
D511	B0JAME000078	DIODE	1	
D513	MA4100M	ZENER DIODE	1	MAZ41000M
D515	MA4056M	ZENER DIODE	1	MAZ40560M
D517-20	MA165	DIODE	4	MA2C165
D521	MA188	DIODE	1	MA2C188
D528,29	MA153	DIODE	2	MA3X153
D530	MA4100M	ZENER DIODE	1	MAZ41000M
D531	B0HDRM000001	DIODE	1	
D532	MA3J142D0L	DIODE	1	
D533,34	MA752A	DIODE	2	MA3D752A
D535	MA188	DIODE	1	MA2C188
D536	MA752A	DIODE	1	MA3D752A

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D537	B0HBRP000006	DIODE	1	
D538	MA4051NM	ZENER DIODE	1	MAZ4051NM
D539	B0HBRP000006	DIODE	1	
D540,41	MA188	DIODE	2	MA2C188
D543-45	MA3180H	ZENER DIODE	3	
D546	B0JCND000005	DIODE	1	
D547	MA3150M	ZENER DIODE	1	MAZ31500M
D548	MA4075M	ZENER DIODE	1	MAZ40750M
D549	MA188	DIODE	1	MA2C188
D550	MA4068M	ZENER DIODE	1	MAZ40680M
D551	MA4075M	ZENER DIODE	1	MAZ40750M
D552	MA4051NM	ZENER DIODE	1	MAZ4051NM
D553	MA165	DIODE	1	MA2C165
D554	ERA15-01	DIODE	1	B0EAKL000006
D555	MA4075M	ZENER DIODE	1	MAZ40750M
D557	MA111	DIODE	1	MA2J111
D561	MA3075MTX	ZENER DIODE	1	MAZ30750ML
D563,64	MA111	DIODE	2	MA2J111
D565	B0JAME000081	DIODE	1	
F405	P130A	FUSE	1	
IC401	CNC1S171R	IC	1	
IC402	NJM2903V	IC	1	C0(HY)BA000032
IC403,04	CNC1S171R	IC	2	
IC406	C0DAZZZ00019	TRANSISTOR	1	
IC408	CNC1S171R	IC	1	
IC409	MIP2E2DMPSCF	IC	1	
IC501	C2ABDA000040	TRANSISTOR	1	
IC502	C0EBH0000190	TRANSISTOR	1	
IC503	C0ZBZ0000383	TRANSISTOR	1	
IC504	TA76431ASTP6	IC	1	
IC511	C0D(J)ZG00010	TRANSISTOR	1	
IC512	TA76431ASTP6	IC	1	
IC520	C0JBAZ002056	TRANSISTOR	1	
IC521	C0JBAF000367	TRANSISTOR	1	
IC522	C0JBAZ002056	TRANSISTOR	1	
IC523	C0JBAF000367	TRANSISTOR	1	
L401	EXCELDR25C	BEAD CHOKE	1	
L402	EXCELSA24	BEAD CHOKE	1	
L403	EXCELSA35	BEAD CHOKE	1	
L502	EXCELDR25C	BEAD CHOKE	1	
L503	ELELN100KA	CHIP INDUCTOR	1	
L504	G0A151ZA0038	CHOKE COIL	1	
L505-07	EXCELDR25C	BEAD CHOKE	3	
L510	EXCELDR25C	BEAD CHOKE	1	
P2	K1KA06A00180	6P CONNECTOR	1	
P5	K1KA11A00073	11P CONNECTOR	1	
P7	K1KA04A00242	4P CONNECTOR	1	
P9	K1KA02A00104	2P CONNECTOR	1	
P11	K1KA07A00096	7P CONNECTOR	1	
P12	K1KA10A00259	10P CONNECTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P23	K1KA03A00213	3P CONNECTOR	1	
P25	TJS1A8840	8P CONNECTOR	1	K1KA08A00221
P27	K1KA09A00099	9P CONNECTOR	1	
P30-33	K1KA03A00172	3P CONNECTOR	4	
PMM1	TMM7464-2	CLAMPER	1	
PMM2	TMME190	CLAMPER	1	
PMM3,M4	TMME047	CLAMPER	2	
PMM5	TMM7464-2	CLAMPER	1	
PR401	K5Y502B00007	FUSE	1	
PR502	ICP-N50T104	PROTECTOR	1	
PR509,10	K5H501Z00005	FUSE	2	
Q401	B1DHBD000002	TRANSISTOR	1	
Q403	2SD1819A	TRANSISTOR	1	2SD1819AW
Q404	2SB1386RT100	TRANSISTOR	1	
Q406	B1DELQ000002	TRANSISTOR	1	
Q407	XP0460100L	TRANSISTOR	1	
Q410	B1CEJQ000001	TRANSISTOR	1	
Q411	UN5213	TRANSISTOR	1	UNR521300L
Q412,13	B1DEER000003	TRANSISTOR	2	
Q414,15	B1DEGQ000030	TRANSISTOR	2	
Q416	XP0460100L	TRANSISTOR	1	
Q420,21	2SD1819A	TRANSISTOR	2	2SD1819AW
Q501,02	2SD1820A	TRANSISTOR	2	
Q503	UN5111	TRANSISTOR	1	UNR5111
Q504	2SK3065T100	FET	1	B1CFNG000001
Q506	XP0440100L	TRANSISTOR	1	
Q508	UN5210RTX	TRANSISTOR	1	
Q509	XP0440100L	TRANSISTOR	1	
Q510	2SB1218ARL	TRANSISTOR	1	
Q511	B1CBGD000001	TRANSISTOR	1	
Q512	B1DHBD000002	TRANSISTOR	1	
Q513	B1CBGD000001	TRANSISTOR	1	
Q514	B1MBACA00005	TRANSISTOR	1	
Q515	2SK3065T100	FET	1	B1CFNG000001
Q516	B1DHBD000002	TRANSISTOR	1	
Q517	XP0440100L	TRANSISTOR	1	
Q518	B1MBACA00005	TRANSISTOR	1	
Q519	2SK3065T100	FET	1	B1CFNG000001
Q520	B1HFCFA00015	TRANSISTOR	1	
Q521	2SD1819A	TRANSISTOR	1	2SD1819AW
Q522	UN5111	TRANSISTOR	1	UNR5111
Q524	2SD1819A	TRANSISTOR	1	2SD1819AW
Q525	XP0460100L	TRANSISTOR	1	
Q527	B1DEHL000015	TRANSISTOR	1	
Q528	2SD1819A	TRANSISTOR	1	2SD1819AW
Q530	XP4501TX	TRANSISTOR	1	XP0450100L
Q531	2SD23750P	TRANSISTOR	1	
Q532	2SD1819A	TRANSISTOR	1	2SD1819AW
Q535	2SD1819A	TRANSISTOR	1	2SD1819AW
Q537	B1CHND000003	TRANSISTOR	1	
Q540	B1DHBD000002	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q541	B1CBGD000001	TRANSISTOR	1	
Q542	XP0460100L	TRANSISTOR	1	
Q543	XP0440100L	TRANSISTOR	1	
Q544	UN5111	TRANSISTOR	1	UNR5111
Q545	2SK3065T100	FET	1	B1CFNG000001
Q546	2SD1819A	TRANSISTOR	1	2SD1819AW
Q547	2SD1119	TRANSISTOR	1	2SD11190L
Q550-52	UN5213	TRANSISTOR	3	UNR521300L
R401-03	ERJ6ENF2003	M 200KOHM, 1/10W	3	
R405-07	ERJ6ENF2003	M 200KOHM, 1/10W	3	
R409	ERJ6ENF3602	M 36KOHM, 1/10W	1	
R410	D0D5200JA032	M 22 OHM,J,1/5W	1	
R411	D1FZ100E0001	F 10 OHM	1	
R412	D0D5200JA032	M 22 OHM,J,1/5W	1	
R413	D1FZ100E0001	F 10 OHM	1	
R414	ERJ8GEYJ153	M 15KOHM, J,1/8W	1	
R415	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R417	ERJ6ENF4303	M 430KOHM, 1/10W	1	
R421	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R423	ERJ6GEYJ2R2	M 2.2 OHM,J,1/10W	1	
R424	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R425	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R426	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R427	ERJ8GEYJ4R7	M 4.7 OHM, J,1/8W	1	
R428	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R429	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R430	ERJ6ENF4303	M 430KOHM, 1/10W	1	
R431	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R432	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R433	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R434	ERJ8GEYJ2R2	M 2.2 OHM, J,1/8W	1	
R436	ERJ8GEYJ153	M 15KOHM, J,1/8W	1	
R437	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R438	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R439	ERJ14YJ120	M 12 OHM, J,1/4W	1	ERJ14YJ120U
R440	ERJ8GEYJ474	M 470KOHM, J,1/8W	1	
R441,42	ERJ6EKF6803	M 680KOHM, 1/10W	2	
R443	EVM(J)SA00B23	CONTROL 2KOHMB	1	
R444	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R448-50	D0XGR10JA007	RESISTOR ARRAY	3	
R451	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R452	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R454	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R456	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R458	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R462	ERJ6ENF4303	M 430KOHM, 1/10W	1	
R463	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R464	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R465	ERJ6ENF5603	M 560KOHM, 1/10W	1	
R466	D0C3104JA014	M 100KOHM,J,1/3W	1	
R467	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R468-70	ERJ6GEYJ474	M 470KOHM,J,1/10W	3	
R471	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R472,73	ERJ6ENF5603	M 560KOHM, 1/10W	2	
R474	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R475	ERJ6EKF6803	M 680KOHM, 1/10W	1	
R476,77	ERJ8GEYJ300	M 30 OHM, J,1/8W	2	
R478	ERJ8GEYJ681	M 680 OHM, J,1/8W	1	ERJ8GEYJ681V
R481	ERJ14YJ621	M 620 OHM, J,1/4W	1	ERJ14YJ621U
R482	ERJ8GEYJ681	M 680 OHM, J,1/8W	1	ERJ8GEYJ681V
R483	ERJ14YJ621	M 620 OHM, J,1/4W	1	ERJ14YJ621U
R484,85	ERJ8GEYJ300	M 30 OHM, J,1/8W	2	
R486	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R489	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R493	ERJ14YJ120	M 12 OHM, J,1/4W	1	ERJ14YJ120U
R494-96	ERJ6ENF5603	M 560KOHM, 1/10W	3	
R497	ERJ6ENF2402	M 24KOHM, 1/10W	1	
R498	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R499	ERJ8GEYJ4R7	M 4.7 OHM, J,1/8W	1	
R500	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R501	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R502,03	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R504	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R505	ERDS2TJ220	C 22 OHM, J,1/4W	1	
R506	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R507	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R508	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R509	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R510	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R512	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R513,14	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R515	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R516	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R517	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R518	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R519,20	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R521,22	ERJ8GEYJ100	M 10 OHM, J,1/8W	2	
R524	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R527	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R528	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R529	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R530	ERJ6ENF9531	M9.53KOHM, 1/10W	1	
R532	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R534-36	ERJ6GEYJ104	M 100KOHM,J,1/10W	3	
R537	ERJ6ENF5602	M 56KOHM, 1/10W	1	
R538-40	ERJ6GEYJ104	M 100KOHM,J,1/10W	3	
R541-44	ERJ1TRQJR47	M 0.47KHM,J, 1W	4	
R545	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R546	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R547-50	ERJ6GEYJ223	M 22KOHM,J,1/10W	4	
R551	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	
R553	ERJ6ENF7501	M 7.5KOHM, 1/10W	1	
R554	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R555,56	ERJ8GEYJ332	M 3.3KOHM, J,1/8W	2	
R557	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R558	ERJ6ENF2702	M 27KOHM, 1/10W	1	
R559	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R563	ERJ6GEYJ4R7	M 4.7 OHM,J,1/10W	1	
R564	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R565	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R566	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R567	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R569	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R570	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R571	ERJ6ENF8201	M 8.2KOHM, 1/10W	1	
R572	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R573	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R574	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R575	ERJ6GEYJ4R7	M 4.7 OHM,J,1/10W	1	
R576	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R577	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R578	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R579	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R580	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R581	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R582	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R583	ERJ6ENF7501	M 7.5KOHM, 1/10W	1	
R584	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R585	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R586	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R587	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	
R588	ERJ6ENF4420	M 442 OHM, 1/10W	1	
R589	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R590	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R592	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R593	ERJ6ENF5601	M 5.6KOHM, 1/10W	1	
R594	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R595	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R596	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R597	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R598	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R599	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R600	ERJ8ENF3900	M 390 OHM, 1/8W	1	
R601	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R602,03	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R604	ERJ6GEYJ391	M 390 OHM,J,1/10W	1	
R605,06	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	2	
R608	D3CA61020010	M1.0 KOHM,J,0.5W	1	
R609	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R610	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R611	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	
R612	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R613	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R614	ERJ6ENF5601	M 5.6KOHM, 1/10W	1	
R615	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R624	ERX1SJR22	M0.22 OHM, J, 1W	1	
R631	ERJ8GEYJ123	M 12KOHM, J,1/8W	1	
R632	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R634	ERJ6ENF4700	M 470 OHM, 1/10W	1	
R635	ERJ6ENF1071	M1.07KOHM, 1/10W	1	
R636-39	ERJ8ENF3902	M 39K OHM, 1/8W	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R640	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R641	EVM(J)SA00B33	CONTROL 3KOHMB	1	
R642-45	ERJ8ENF3902	M 39K OHM, 1/8W	4	
R646	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R649	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R650	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R651	ERG1SJ221	M 220 OHM, J, 1W	1	
R652	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R653,54	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	2	
R656,57	ERJ8GEYJ332	M 3.3KOHM, J,1/8W	2	
R658	ERJ6ENF6201	M 6.2KOHM, 1/10W	1	
R659	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R660	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R661	EVM(J)SA00B53	CONTROL 5KOHMB	1	
R662	ERJ6ENF1303	M 130KOHM, 1/10W	1	
R663	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R664	ERJ6ENF9101	M 9.1KOHM, 1/10W	1	
R665	EVM(J)SA00B23	CONTROL 2KOHMB	1	
R666	ERJ6ENF9101	M 9.1KOHM, 1/10W	1	
R667	ERJ6ENF5101	M 5.1KOHM, 1/10W	1	
R668	ERJ6ENF2401	M 2.4KOHM, 1/10W	1	
R669	ERJ6ENF1303	M 130KOHM, 1/10W	1	
R670,71	ERJ6ENF2202	M 2.2KOHM, 1/10W	2	
R672	ERJ6ENF1502	M 15KOHM, 1/10W	1	
R673	ERJ6ENF5101	M 5.1KOHM, 1/10W	1	
R674,75	ERJ8GEYJ124	M 120KOHM, J,1/8W	2	
R676	ERJ8GEYJ123	M 12KOHM, J,1/8W	1	
R677	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R678	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R679,80	ERJ6ENF2202	M 2.2KOHM, 1/10W	2	
R681	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R682,83	ERJ3GEYJ2R2	M 2.2 OHM,J,1/16W	2	
R685	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R686	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R687	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R688	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R689	ERG3SJ101	M 100 OHM, J, 3W	1	
R690	ERJ6ENF3002	M 30KOHM, 1/10W	1	
R692	ERJ8GEYJ124	M 120KOHM, J,1/8W	1	
R694	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R695-97	ERJ8GEYJ124	M 120KOHM, J,1/8W	3	
R698	ERJ6GEYJ4R7	M 4.7 OHM,J,1/10W	1	
R699	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
RL401	K6B1AGA00086	RELAY	1	
RL402	K6B1AGA00177	REALY	1	
T401	G4D4A0000073	SWITCHING TRANSFORMER	1	
T402,03	ETS19AB1T6AG	SWITCHING TRANS	2	
T404	ETS28LZ116AD	SWITCHING TRANS	1	
T405	ETS42LZ116AD	SWITCHING TRANS	1	
T407	ETQ11K5AZ	CHOKE TRANS	1	
T410	ETS25AD1J6AH	SWITCHING TRANS	1	

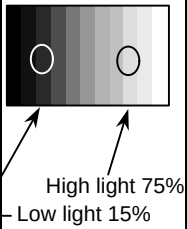
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
X501	H2B400400021	CRYSTAL	1	
Z415	TMM23417	CLAMPER	3	
ZN402	D4EAD6210001	VARISTOR	1	

18. Schematic Diagram for printing with A4

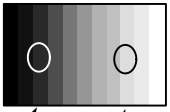
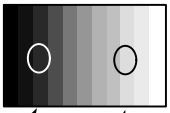
19. Cover for printing with A4

		Equipment	Setting	Alignment menu	Procedure
5			Picture: Normal Aspect: 16:9 White balance: **Cool** **Normal** **Warm**		1) Write down each color temaparature of R,G,B drive and Cut off data as follows. 2) Input SECAM signal. 3) Copy PAL R,G,B drive and cut off data of each white balance mode to SECAM position.
	SECAM signal				

White Balance	Cool	Normal	Warm
R Drive			
G Drive			
B Drive			
R Cut off			
G Cut off			
B Cut off			

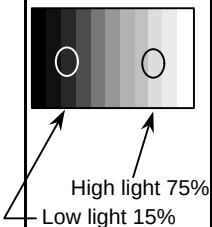
	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PC Gray Scale Pattern  	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-03. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-03. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. Fig. -03
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

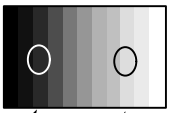
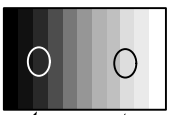
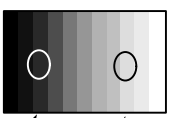
	INPUT	Equipment	Setting	Alignment menu	Procedure
5	RGB Gray Scale Pattern  		Picture: Normal Aspect: 16:9 White balance: **Cool** **Normal** **Warm**		1) Write down each color temaparature of R,G,B drive and Cut off data as follows. 2) Input RGB signal. 3) Copy PC R,G,B drive and cut off data of each white balance mode to RGB position.
6	DVI Gray Scale Pattern  		Picture: Normal Aspect: 16:9 White balance: **Cool** **Normal** **Warm**		1) Write down each color temaparature of R,G,B drive and Cut off data as follows. 2) Input DVI signal. 3) Copy PC R,G,B drive and cut off data of each white balance mode to DVI position.

White Balance	Cool	Normal	Warm
R Drive			
G Drive			
B Drive			
R Cut off			
G Cut off			
B Cut off			

White Balance	Cool	Normal	Warm
R Drive			
G Drive			
B Drive			
R Cut off			
G Cut off			
B Cut off			

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	HD (720i or 1080i) Gray Scale Pattern  	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m_2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m_2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-04. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m_2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-04. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. Fig. -04
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

	INPUT	Equipment	Setting	Alignment menu	Procedure
5	RGB Gray Scale Pattern  High light 75% Low light 15%		Picture: Normal Aspect: 16:9 White balance: **Cool** **Normal** **Warm**		1) Write down each color temaparature of R,G,B drive and Cut off data as follows. 2)Change input signal to 525i and 525p. 3) Copy HD drive and cut off data of each white balance mode to each signals position.
6	RGB Gray Scale Pattern  High light 75% Low light 15%		Picture: Normal Aspect: 16:9 White balance: **Cool** **Normal** **Warm**		1) Write down each color temaparature of R,G,B drive and Cut off data as follows. 2)Change input signal to 525p and 625i. 3) Copy HD drive and cut off data of each white balance mode to each signals position.
7	RGB Gray Scale Pattern  High light 75% Low light 15%		Picture: Normal Aspect: 16:9 White balance: **Cool** **Normal** **Warm**		1) Write down each color temaparature of R,G,B drive and Cut off data as follows. 2)Change input signal to 625i and 625p. 3) Copy HD drive and cut off data of each white balance mode to each signals position.

White Balance	Cool	Normal	Warm
R Drive			
G Drive			
B Drive			
R Cut off			
G Cut off			
B Cut off			

White Balance	Cool	Normal	Warm
R Drive			
G Drive			
B Drive			
R Cut off			
G Cut off			
B Cut off			

White Balance	Cool	Normal	Warm
R Drive			
G Drive			
B Drive			
R Cut off			
G Cut off			
B Cut off			

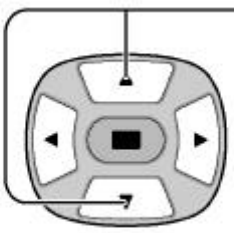
How to access the Option menu

1

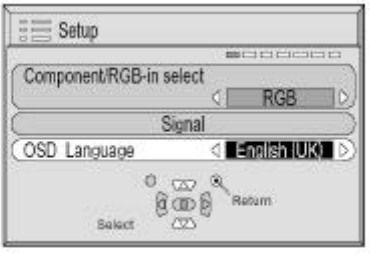


Press to display the Setup menu.

2



Press to select OSD Language.



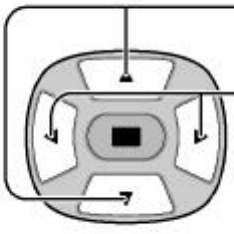
3



Press down for more than 3 seconds to display the Option menu.

Setting the Option menus

1



Press to select the desired item.

Press to select the desired function.

The option menu will disappear 60 seconds after operation.

2

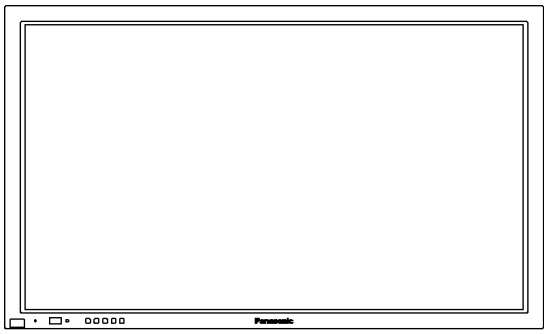


Press to exit Option menu.

ORDER NO. ITD0308027C0
D10 Canada: B07

Service Manual

High Definition Plasma Display



TH-42PHW6EX
TH-42PHD6EX
TH-42PHD6BX
TH-42PHD6UY

GPH6D Chassis

Specifications

Power Source:	AC120V 50/60Hz (UY version)
	AC220-240V 50/60Hz
	(Except UY version model)
Power Consumption:	265 W
	Save off 1.6 W, Save on 0.9 W (stand-by condition)
	(UY version)
	Save off 1.9 W, Save on 1.1 W (stand-by condition)
	(Except UY version model)
	0.2 W (Power off condition)
	(UY version model)
	0.4 W (Power off condition)
	(Except UY version model)
Plasma Display panel:	Drive method AC type
	16:9 aspect ratio
Contrast Ratio	3000:1
Screen size:	920 mm (W) × 518 mm (H)
	1,056 mm (diagonal)
	No. of pixels
	786,432 (1,024 (W) × 768 (H))
	[3,072 × 768 dots]
Operating condition:	
Temperature	34 °F - 104 °F (0 °C - 40 °C)
Humidity	20 % - 80 %
	Horizontal scanning frequency 15 - 110kHz
	Vertical scanning frequency 48 - 120Hz
Connection terminals:	

AV	
Video in	1.0 Vp-p (75-ohm)
S-VIDEO IN (MINI DIN 4PIN)	Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm)
AUDIO IN (RCA PIN JACK × 2)	0.5 Vrms (high impedance)
COMPONENT/RGB	
Y/G	1.0 Vp-p/composite (75-ohm)
	0.7 Vp-p/non-composite (75-ohm)
P_B/B	0.7 Vp-p (75-ohm)
P_R/R	0.7 Vp-p (75-ohm)
HD	1.0 - 5.0 Vp-p (high impedance)
VD	1.0 - 5.0 Vp-p (high impedance)
AUDIO IN (RCA PIN JACK×2)	0.5 Vrms (high impedance)
PC	
(HIGH-DENSITY D-SUB15PIN)	R,G,B/0.7 Vp-p (75-ohm)
	HD, VD/1.0 - 5.0 Vp-p (high impedance)
AUDIO IN (M3 JACK)	0.5Vrms (high impedance)
SERIAL	
EXTERNAL CONTROL TERMINAL (D-SUB9PIN)	RS-232C COMPATIBLE
SPEAKERS (External speakers) (6Ω)	16W [8W+8W] (10% THD)
Dimensions (W×H×D):	1,020 mm × 610 mm 89 mm
Weight (Mass)	approx. 29.5 kg net (main unit only)
	approx. 33.7 kg net (with speakers)

Panasonic®

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Applicable signals

VIDEO input

	signal name	horizontal frequency(kHz)	vertital frequency(Hz)
1	NTSC	15.734	59.95
2	PAL	15.625	50
3	PAL60	15.734	59.95
4	SECAM	15.625	50
5	Modified NTSC	15.734	59.95

∗ Mark:
By installing the optional Terminal Board.

Applicable input signals for PC Input (D-sub 15P) (* Mark)

	signal name	horizontal frequency(kHz)	vertital frequency(Hz)	RGB	PC	when Multi Screen and Digital Zoom
1	525(480)/60i	15.73	59.94	∗	∗	∗
2	525(480)/60p	31.47	59.94	∗	∗	∗
3	625(575)/50i	15.63	50.00	∗	∗	∗
4	625(575)/50p	31.25	50.00	∗	∗	∗
5	750(720)/60p	45.00	60.00	∗	∗	∗
6	750(720)/50p	37.50	50.00	∗	∗	∗
7	1,125(1,080)/60i	33.75	59.94	∗	∗	∗
8	1,125(1,080)/50i	28.13	50.00	∗	∗	∗
9	1,125(1,080)/24p	27.00	24.00	∗	∗	
10	1,125(1,080)/24sF	27.00	48.00	∗	∗	∗
11	1,250(1,080)/50i	31.25	50.00	∗	∗	∗
12	640×400@70 Hz	31.47	70.00		∗	∗
13	640×480@60 Hz	31.47	59.94		∗	∗
14	Macintosh13"(640×480)	35.00	66.67		∗	∗
15	640×480@75 Hz	37.50	75.00		∗	∗
16	852×480@60 Hz	31.50	60.00		∗	∗
17	800×600@60 Hz	37.88	60.32		∗	∗
18	800×600@75 Hz	46.88	75.00		∗	∗
19	800×600@85 Hz	53.67	85.06		∗	∗
20	Macintosh16"(832×624)	49.73	74.55		∗	∗
21	1,024×768@60 Hz	48.36	60.00		∗	∗
22	1,024×768@70 Hz	56.48	70.07		∗	∗
23	1,024×768@75 Hz	60.02	75.03		∗	∗
24	1,024×768@85 Hz	68.68	85.00		∗	∗
25	Macintosh21"(1,152×870)	68.68	75.06		∗	
26	1,280×1,024@60 Hz	63.98	60.02		∗	
27	1,280×1,024@75 Hz	79.98	75.03		∗	
28	1,280×1,024@85 Hz	91.15	85.02		∗	
29	1,600×1,200@60 Hz	75.00	60.00		∗	
30	1,0660×600@60 Hz	37.88	60.32		∗	∗
31	1,366×768@60 Hz	48.36	60.00		∗	∗

2 Safety Precautions

2.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1MΩ and 5.2MΩ.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

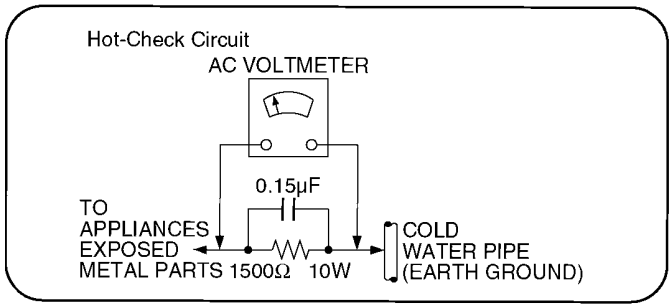


Figure 1

2.1.2. Leakage Current Hot Check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5kΩ, 10 watts resistor, in parallel with a 0.15µF capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

3 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4 About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

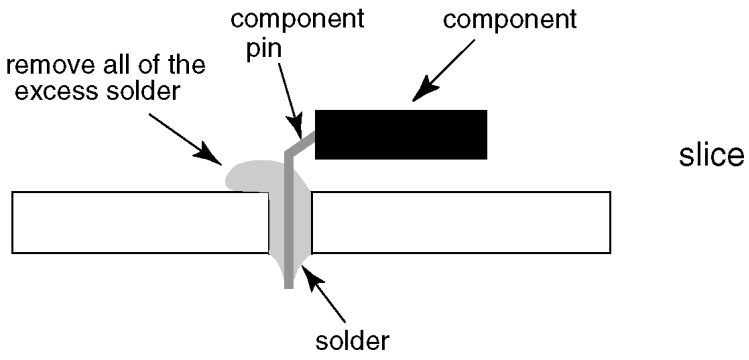
This model uses Pb Free solder in it's manufacture due to environmental conservation issues. For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol (PbF) stamped on the back of PCB.

Caution

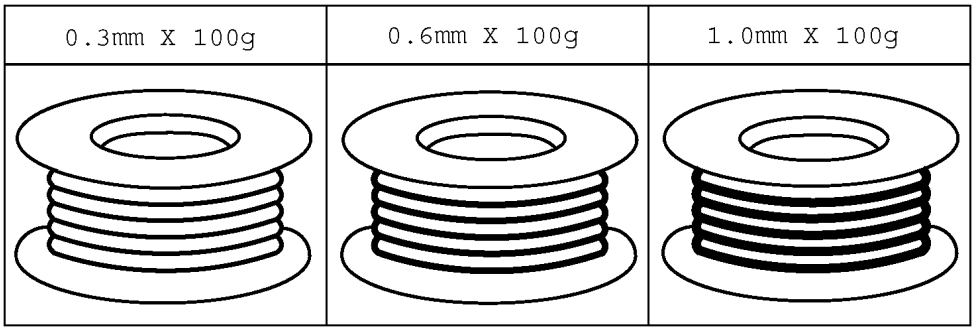
- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).

  If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.



5 PCB Structure sheet of GPH6D chassis

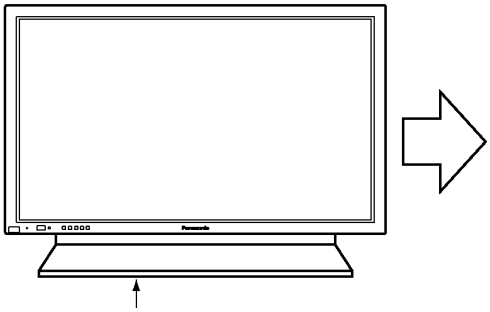
Board Name	Function	Remarks
D	Digital Signal Processor	1
J	Slot Interface & SYNC processor	1
Z	Audio out, DC-DC converter	
SS	Sustain Out	1
SC	Scan out	1
SU	Sustain connection (Upper)	1
SD	Sustain connection (Lower)	1
C1	Data Drive (Upper Right)	
C2	Data Drive (Upper Left)	
C3	Data Drive (Lower Left)	
C4	Data Drive (Lower Left)	
H3	Speaker terminal	
S1	Power switch	
SS2	Sustain connection (Upper)	
SS3	Sustain connection (Lower)	
V1	Front SW. & Remote receiver	
PF	Line filter	
P	Power supply	1
HX	PC_type_Input terminal	
HY	BNC Composite/Component Video	2
HZ	BNC Component Video	3

Remarks

1. Recommend PCB´s for initial service for GPH6D chassis.
2. For System model except BX, EX version
3. For Consumer model except BX, EX version

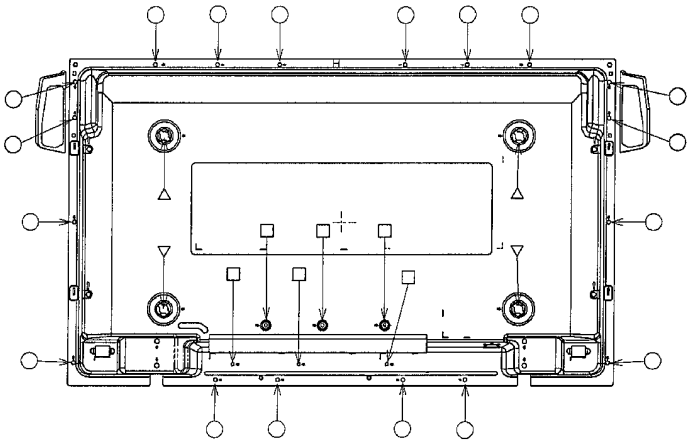
6 Service Hint

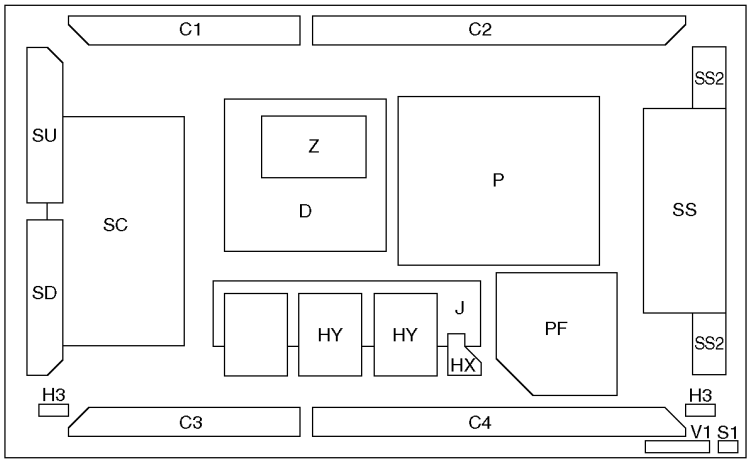
Stand the Unit used for Optional Accessory



Optional Accessory
(Pedestal)

Remove the Back Cover

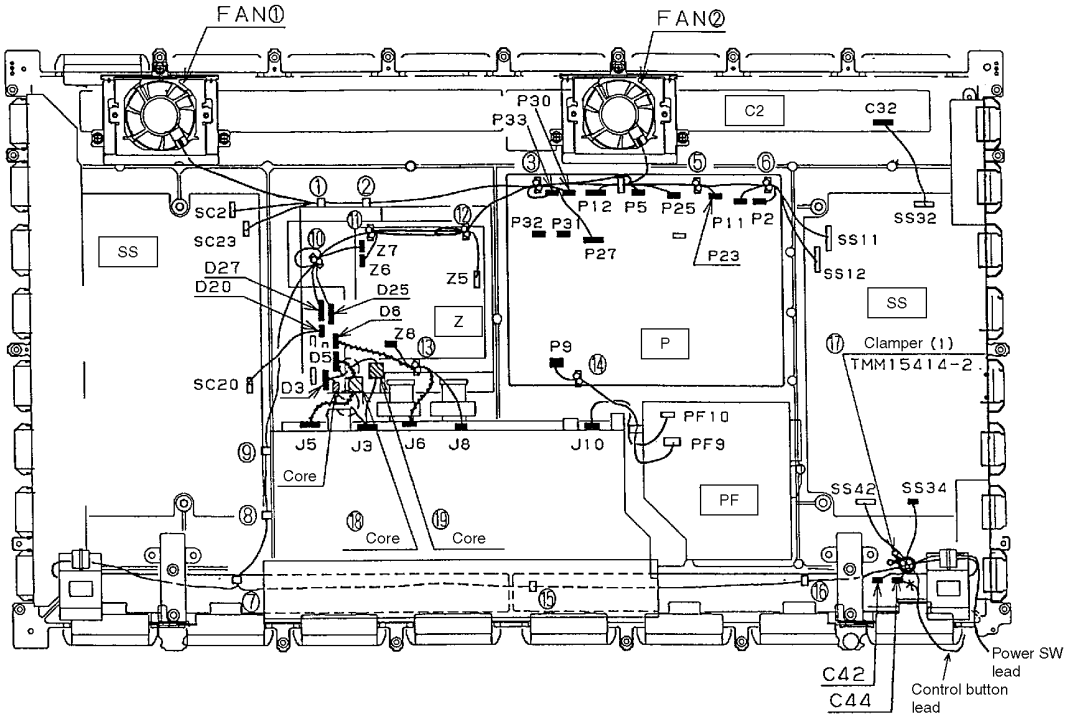




Remove: 4 screws (△) XYN8+F20FZ
6 screws (□) THEL023Z
18 screws (○) XYC4+FJ35FZ

Service Position

7 Location of Lead Wiring



CON:NO — CON:NO \ CLAMPER	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
SC2 — P2	○	○	○	○	○	○														
SC23 — P23	○	○	○	○	○															
SC20 — D20																				
D27 — P27			○							◎	○	○								
D25 — P25			○	○						◎	○	○								
D3 — J3																			○	
D6 — J6													○							
Z8 — J8													○							
D5 — J5																		○		
Z5 — P5			○	○								◎								
SP (SC SIDE) — Z7							○	○	○	○										
SP (SS SIDE) — Z6							○	○	○	○	○				○	○	○			
SS12 — P12				○	○	○														
SS11 — P11						○														
SS42 — C42																	○			
SS32 — C32																				
POWER SW — SS34																	○			
CONTROL BUTTON — C44																	○			
PF9 — P9														○						
PF10 — J10																				
FAN① — P30	○	○	○																	
FAN② — P33			○	○																

◎ Wind up second times.

Connector Connection: P2, P5, P9, P11, P12, P23, P25, P27, P30, P31, P32, P33
Z6, Z7, Z8,
D3, D5, D6, D20, D25, D27
J3, J5, J6, J8, J10,
SS34,
C23, C42, C44

8 Adjustment Procedure

8.1. Driver Set-up

8.1.1. Item / Preparation

1. Input an APL 100 % white signal.
2. Set the picture controls: -

   Picture mode: Normal

   White balance: Cool

   Aspect: 16:9

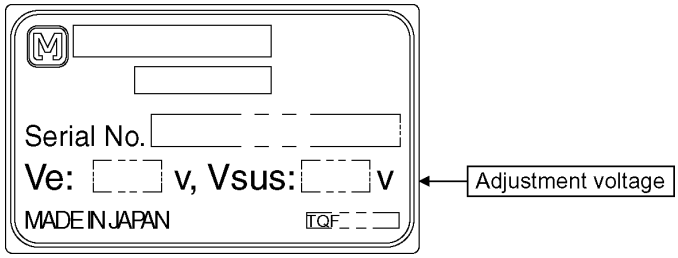
8.1.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	170V ± 2V	VR641 (P)	
Ve	TPVE (SS)	150V ± 1V	R6770 (SS)	
Vset	TPVSET (SC)	220V ± 5V	---	
Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
Vscn	TPVSCN (SC)	Vad*+118V ± 2V	---	
Vda	TPVDA (SS)	67V ± 1V	VR665 (P)	

*See the Panel label.

Panel Label information



8.2. Initialization Pulse Adjust

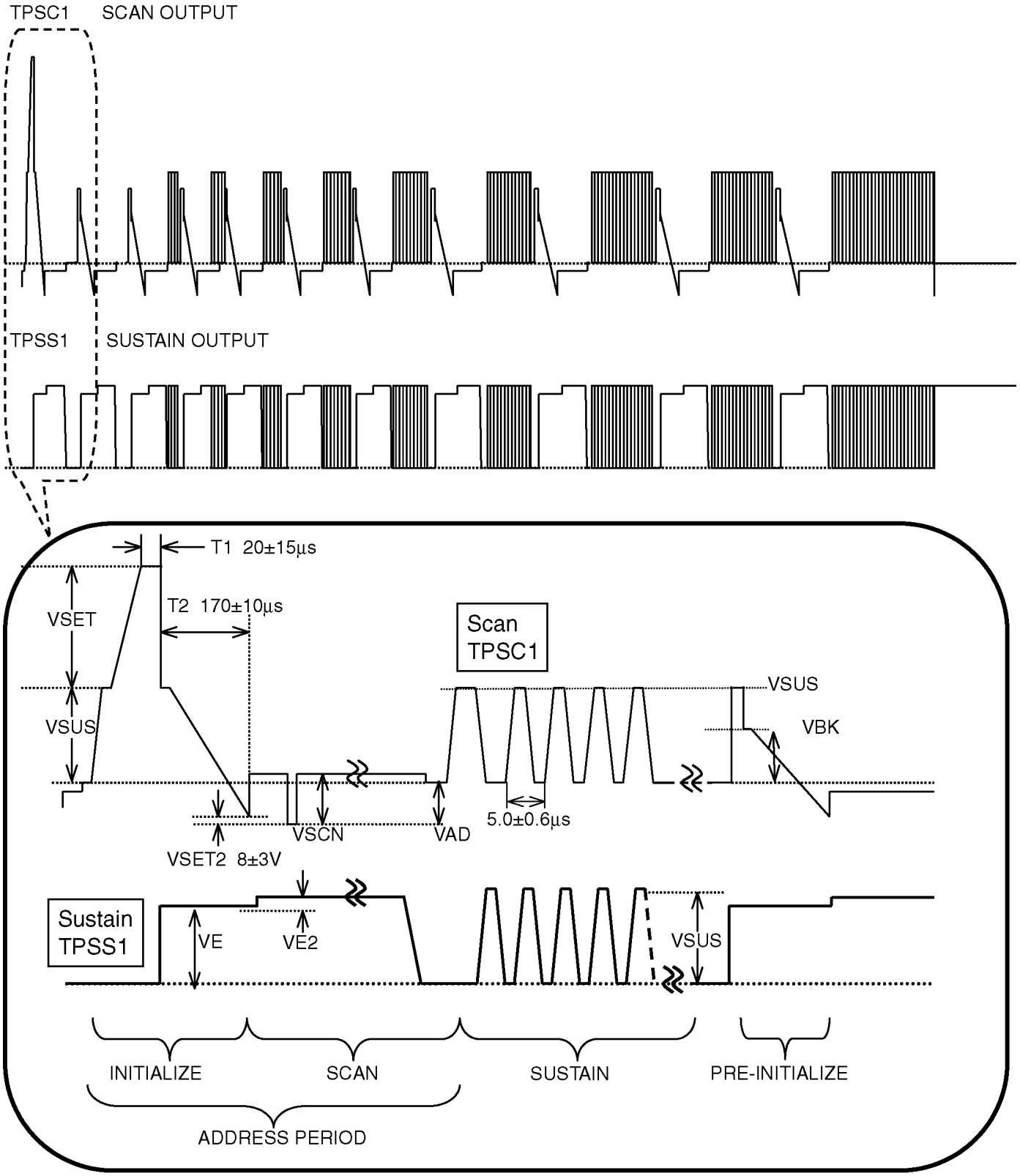
1. Input a Cross hatch signal.
2. Set the picture controls: -

   Picture mode: Normal

   White balance: Cool

Adjust the indicated test point for the specified wave form.

	Test point	Volume	Level
T1	TPSC1 (SC)	---	20 ± 15µ Sec
T2	TPSS1 (SS)	R6557 (SC)	170 ± 10µ Sec



8.3. P.C.B. (Printed Circuit Board) exchange

8.3.1. Caution

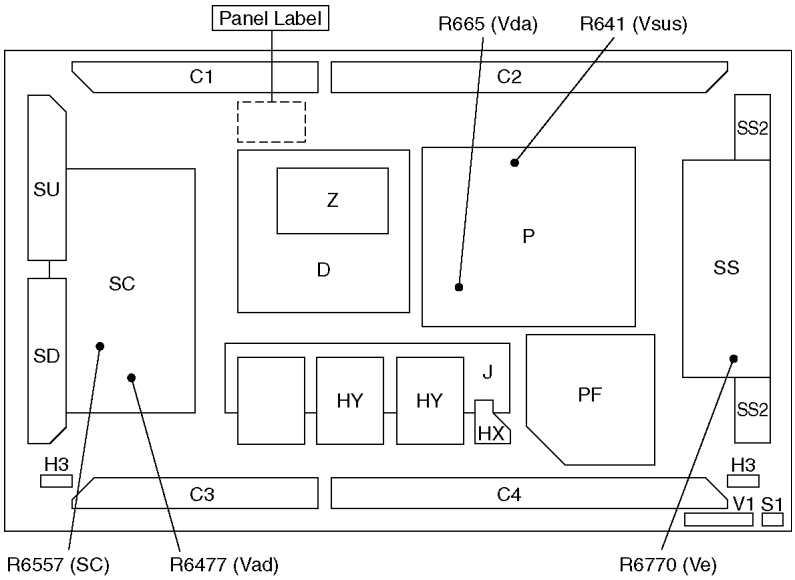
1. To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.

8.3.2. Quick adjustment after P.C.B. exchange

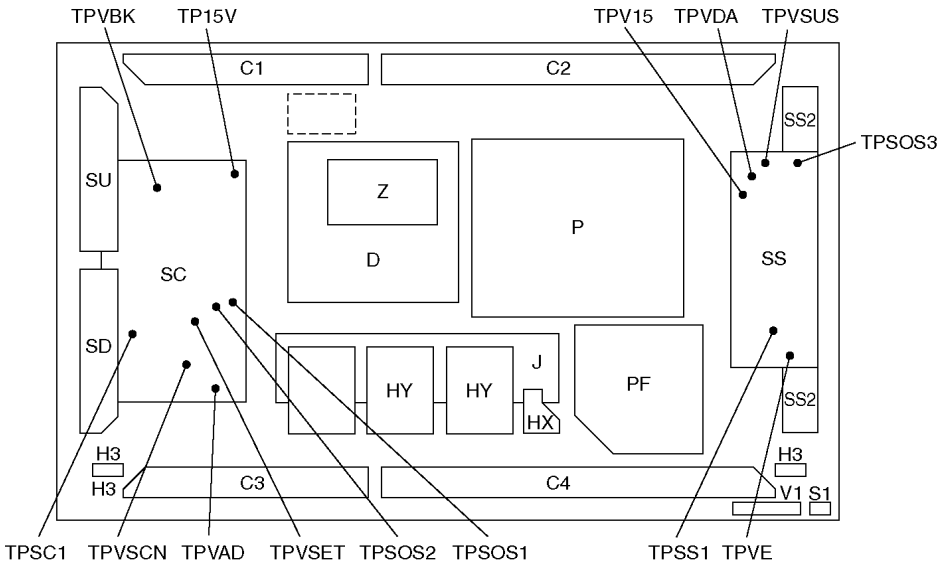
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	Vsus	TPVSUS (SS)	170V ± 2V	R641 (P)	
	Vda	TPVDA (SS)	67V ± 1V	R665 (P)	
SC Board	Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
	Vset	TPVSET (SC)	220V ± 5V	---	
	Vscn	TPVSCN (SC)	Vad + 118 ± 2V	---	
SS Board	Ve	TPVE (SS)	158V ± 1V	R6770 (SS)	
D, J Board	White blance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625i signals				

*See the Panel label.

8.4. Adjustment Volume Location



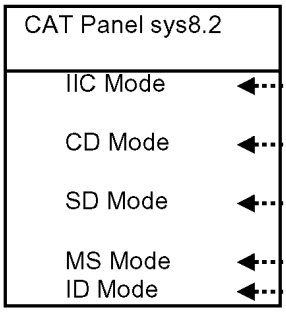
8.5. Test Point Location



9 Service mode

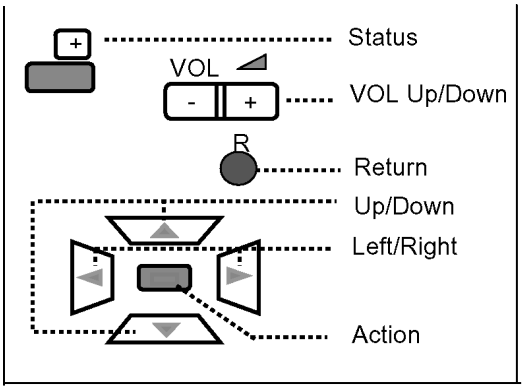
9.1. CAT (computer Aided Test) mode

CAT mode menu



Mode	Function	Access button
IIC	Service Alignment	Action
CD(Complete Diagnostics)	Software version information EEPROM edit	Mute more than 5 seconds
SD(Status Display)	MTBF parameter	Action
MS Mode	Not use	-----
ID	Not use	-----

Remote control



How to access the CAT mode.

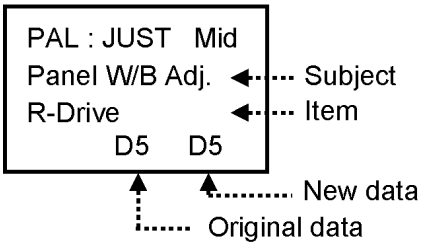
Press and the hold the Volume down / - buton on the front panel of the unit and press the status button on the remote control 3 times quickly within 1 second, this will place the unit into the CAT mode.

To exit the **CAT mode**, access the **ID mode** and switch off the main power.

9.1.1. IIC mode

Select the IIC mode by **Up/Down button** on the remote control at the front page of CAT mode then press the **Action button** on the remote control.

OSD



How to use the IIC mode.

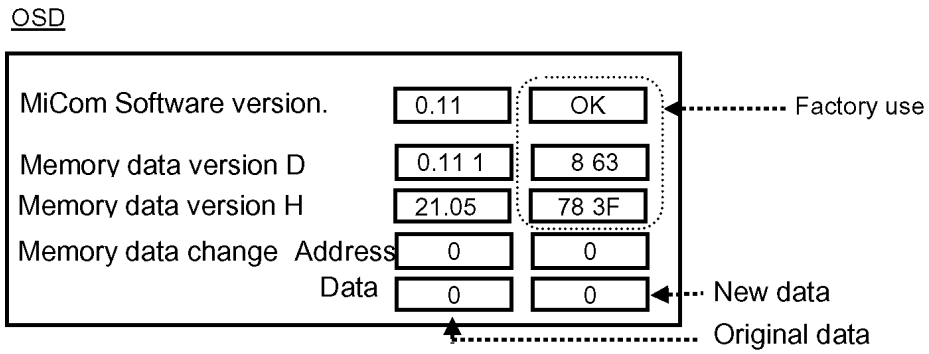
1. Select the alignment **Subject** by **Up/Down buttons** on the remote control.
2 .Select the alignment **Item** by **Left/Right buttons** on the remote control.
3. Adjust **optimum setting** by **Volume Up/Down buttons** on the remote control.
4. The **data is memorized** when press the **R button** on the remote control or change the alignment Subject (or Items).

Subject and item are mentioned on page 14.

To exit the IIC mode, press the **R button** on the remote control.

9.1.2. CD mode

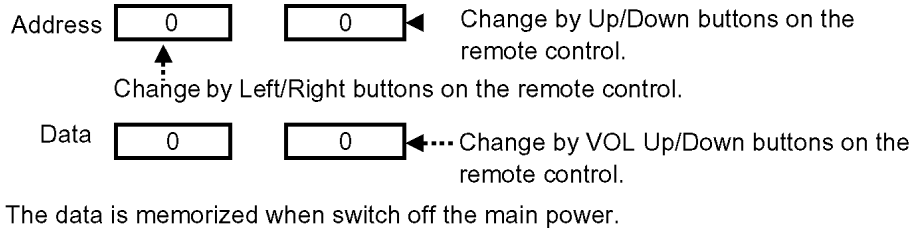
Select the CD mode by **Up/Down button** on the remote control at the front page of CAT mode then press the **Mute button** on the remote control more than 5 sec.



Micom software version (IC9354), this version can be upgrade by

1. replace of new version IC
2. Loading the new version software from loader tool, TZSC07036.

Memory data change

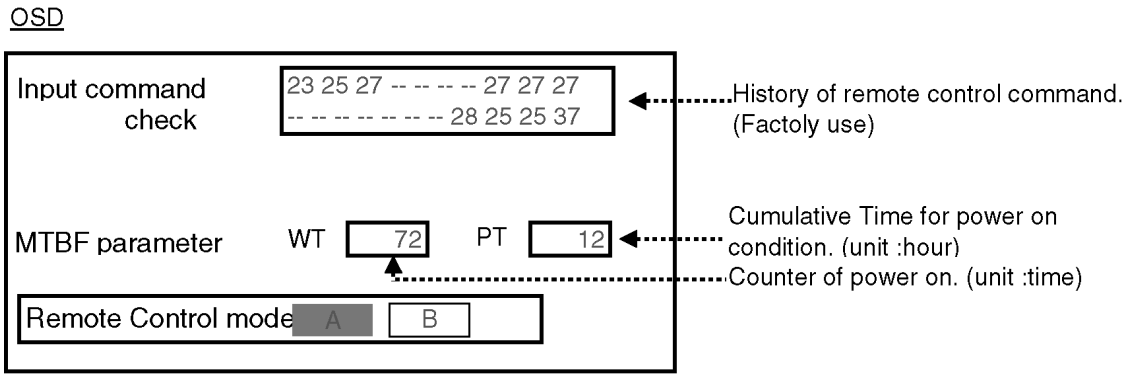


The data is memorized when switch off the main power.

To exit the CD mode, press the **R button** on the remote control.

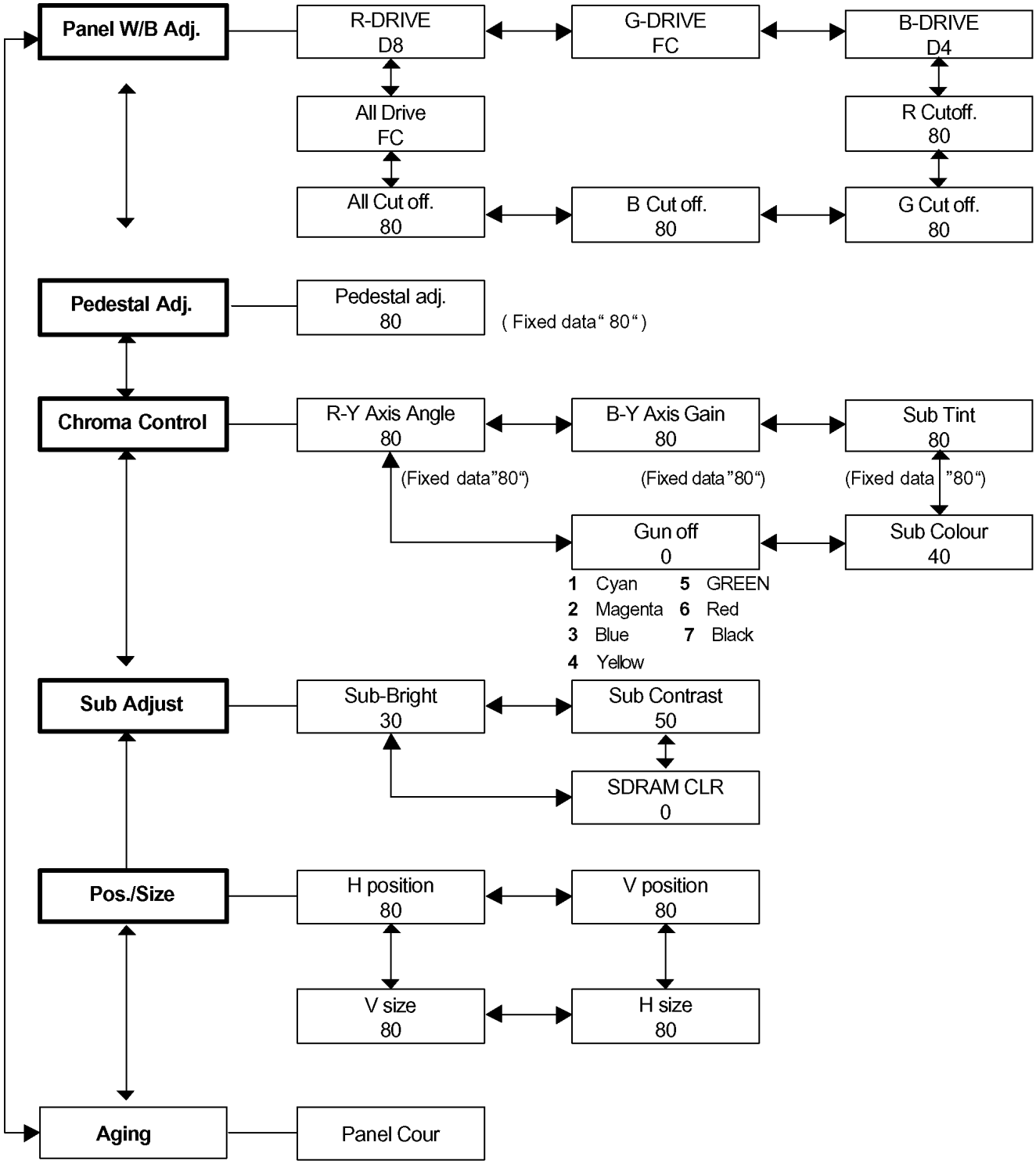
9.1.3. SD mode

Select the SD mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.



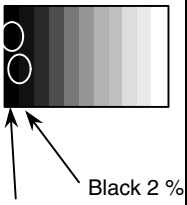
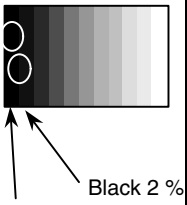
To exit the SD mode, press the **R button** on the remote control.

9.2. IIC mode structure (following items value is sample data.)



10 Alignment

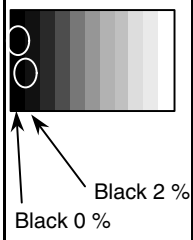
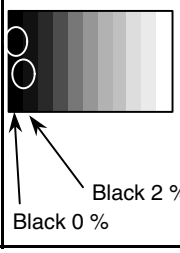
10.1. Pedestal setting (C)

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RGB(PC) Gray Scale Pattern  		Picture: Normal White balance: **Cool** Aspect: 16:9 COMPONENT /RGB-IN: RGB	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: B Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: R Sub Bright 1	** Adjust at the dark room. 1) Set R,G and B cut off to " **80** ". 2) Set Gun off to "**5**". (Only green pixels can emit.) 3) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area. 4) Set Gun off to "**3**". (Only blue pixels can emit.) 5) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area. 6) Set Gun off to "**6**". (Only red pixels can emit.) 7) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	Component (525i, 525p, 625i, 720i or 1080i) Gray Scale Pattern  		Picture: Normal White balance: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to Component signal. 2) Repeat procedure 1) to 7) of RGB input signal.

Note:

OSD is the difference between UY model and Except UY model.
Picture: Normal (Except UY)/Standard (UY model)
White balance (Except UY)/Color Temp (UY model)

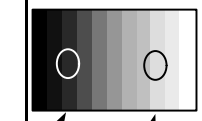
10.2. Pedestal setting (B)

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RGB(PC) Gray Scale Pattern  		Picture: Normal White balance: **Cool** Aspect: 16:9 COMPONENT /RGB-IN: RGB	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright 2 Chroma Control: Gun off RGB Sub Adjust: B Sub Bright 2 Chroma Control: Gun off RGB Sub Adjust: R Sub Bright 2	** Adjust at the dark room. 1) Press the SWAP button, change input to signal path. 2) Set R,G and B cut off to " 3) Set Gun off to "**5**". (Only green pixels can emit.) 4) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area. 5) Set Gun off to "**3**". (Only blue pixels can emit.) 6) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area. 7) Set Gun off to "**6**". (Only red pixels can emit.) 8) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	Component (525i, 525p, 625i, 720i or 1080i) Gray Scale Pattern  		Picture: Normal White balance: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to Component signal. 2) Repeat procedure 1) to 7) of RGB input signal.

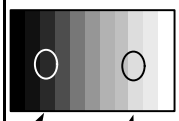
Note:

OSD is the difference between UY model and Except UY model.
Picture: Normal (Except UY)/Standard (UY model)
White balance (Except UY)/Color Temp (UY model)

10.3. NTSC panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	NTSC Gray Scale Pattern  	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-01. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-01. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. Color Temp. / x / y Cool(Hi) 0.276 0.276 Normal(Mid) 0.288 0.296 Warm(Low) 0.313 0.329 Fig. -01
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

10.4. PAL/SECAM panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PAL Gray Scale Pattern  	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m^2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m^2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-02. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m^2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-02. 9) Repeat procedure 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. Color Temp. / x / y Cool(Hi) / 0.276 / 0.276 Normal(Mid) / 0.288 / 0.296 Warm(Low) / 0.313 / 0.329 Fig. -02
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

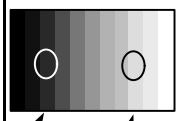
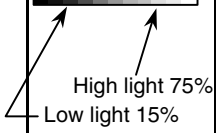
<table>
<tr><th></th><th></th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>SECAM signal</td><td></td><td>Picture:
Normal
Aspect:
16:9

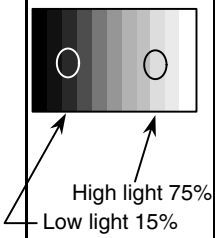
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.

<table><tr><td>White Balance</td><td>Cool</td><td>Normal</td><td>Warm</td></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table>
2) Input SECAM signal.

3) Copy PAL R,G,B drive and cut off data of each white balance mode to SECAM position.</td></tr>
</table>

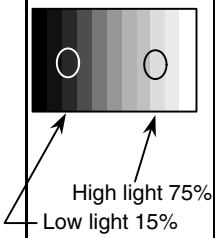
10.5. PC/RGB panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PC Gray Scale Pattern   High light 75% Low light 15%	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-03. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-03. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. Color Temp. / x / y Cool(Hi) 0.276 0.276 Normal(Mid) 0.288 0.296 Warm(Low) 0.313 0.329 Fig. -03
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>RGB
Gray Scale
Pattern
 
</td><td></td><td>Picture:
Normal
Aspect:
16:9

White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.

<table><tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table>
2) Input RGB signal.

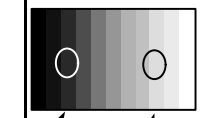
3) Copy PC R,G,B drive and cut off data of each white balance mode to RGB position.</td></tr>
<tr><td>6</td><td>DVI
Gray Scale
Pattern
 
</td><td></td><td>Picture:
Normal
Aspect:
16:9

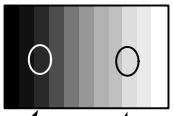
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.

<table><tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table>
2) Input DVI signal.

3) Copy PC R,G,B drive and cut off data of each white balance mode to DVI position.</td></tr>
</table>

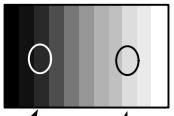
10.6. HD/ 525i /525p /625I /625P panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	HD (720i or 1080i) Gray Scale Pattern  	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m_2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m_2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-04. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m_2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-04. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. Color Temp. / x / y Cool(Hi) / 0.276 / 0.276 Normal(Mid) / 0.288 / 0.296 Warm(Low) / 0.313 / 0.329 Fig. -04
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>RGB
Gray Scale
Pattern
 
High light 75%
Low light 15%</td><td></td><td>Picture:
Normal
Aspect:
16:9

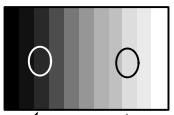
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.

<table><tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table>
2)Change input signal to 525i and 525p.

3) Copy HD drive and cut off data of each white balance mode to each signals position.</td></tr>
<tr><td>6</td><td>RGB
Gray Scale
Pattern
 
High light 75%
Low light 15%</td><td></td><td>Picture:
Normal
Aspect:
16:9

White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.

<table><tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table>
2)Change input signal to 525p and 625i.

3) Copy HD drive and cut off data of each white balance mode to each signals position.</td></tr>
<tr><td>7</td><td>RGB
Gray Scale
Pattern
 
High light 75%
Low light 15%</td><td></td><td>Picture:
Normal
Aspect:
16:9

White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.

<table><tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table>
2)Change input signal to 625i and 625p.

3) Copy HD drive and cut off data of each white balance mode to each signals position.</td></tr>
</table>

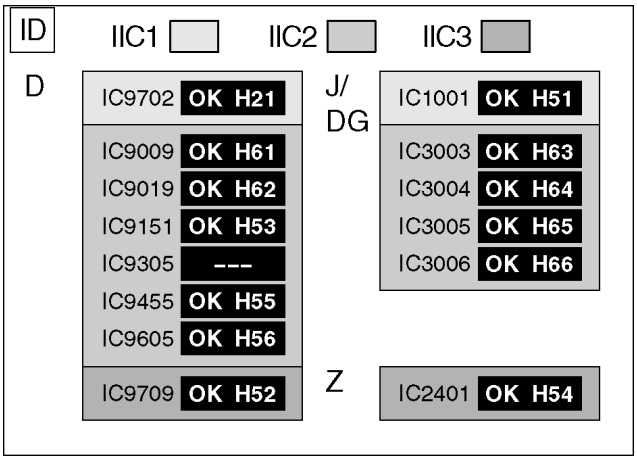
11 Trouble shooting guide

11.1. Self Check

11.1.1. Display Indication

1. Self-check is used to automatically check the bus line controlled circuit of the Plasma display.
2. To get into the Self-check mode, press the **volume down** button on the customer controls at the front of the set, at the same time pressing the **OFF-TIMER** button on the remote control, and the screen will show :-

If the CCU ports have been checked and found to be incorrect Or not located then " - - " will appear in place of " OK "



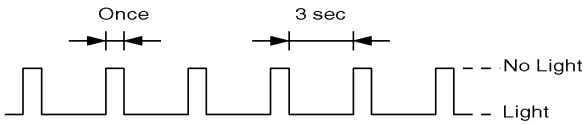
11.1.2. Power LED Blinking timing chart

1. Subject

   Information of LED Flashing timing chart.

2. Contents

   When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinkes of the Power LED on the front panel of the unit.

Blinking times	Blinking timing	Contents & Check point
1		Main Micom Power
2		SCAN Driver1
3		3.3V SOS
4		5V SOS
5		Power SOS
6		FAN
7		SCAN Driver2
8		TEMP (Not used)
9		SUS Driver

3. Remarks

   Above Fan function is operated during the fans are installed.

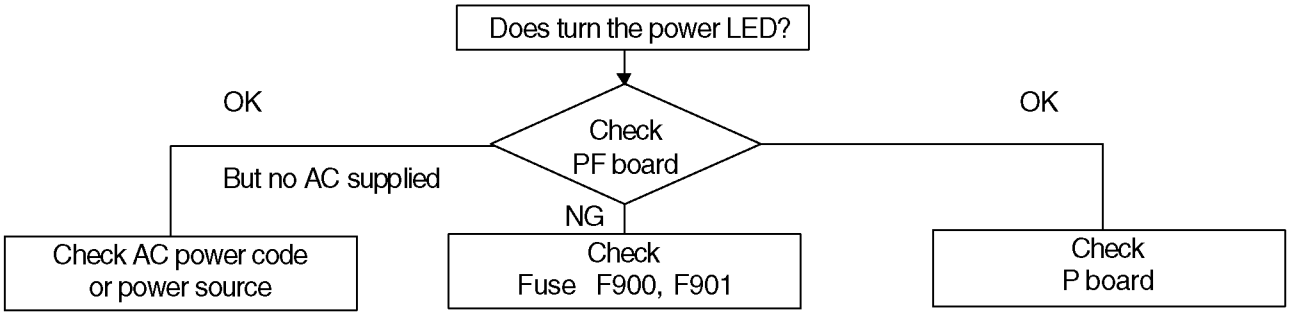
11.2. No Power

First check point

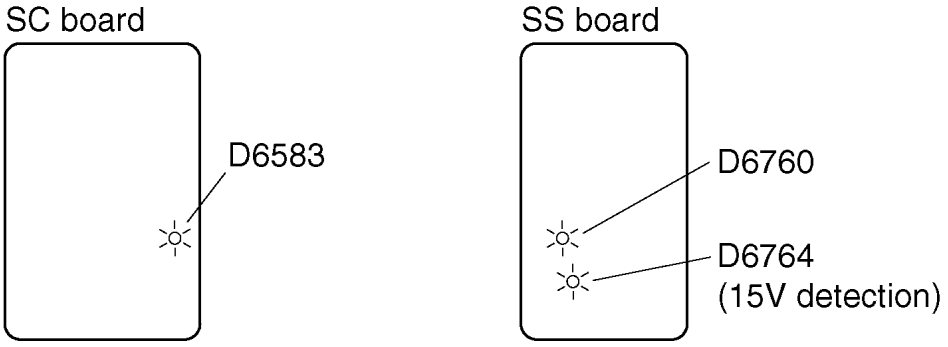
There are following 3 states of No Power indication by power LED.

1. No lit
2. Green is lit then turns red blinking a few seconds later.
3. Only red is lit.

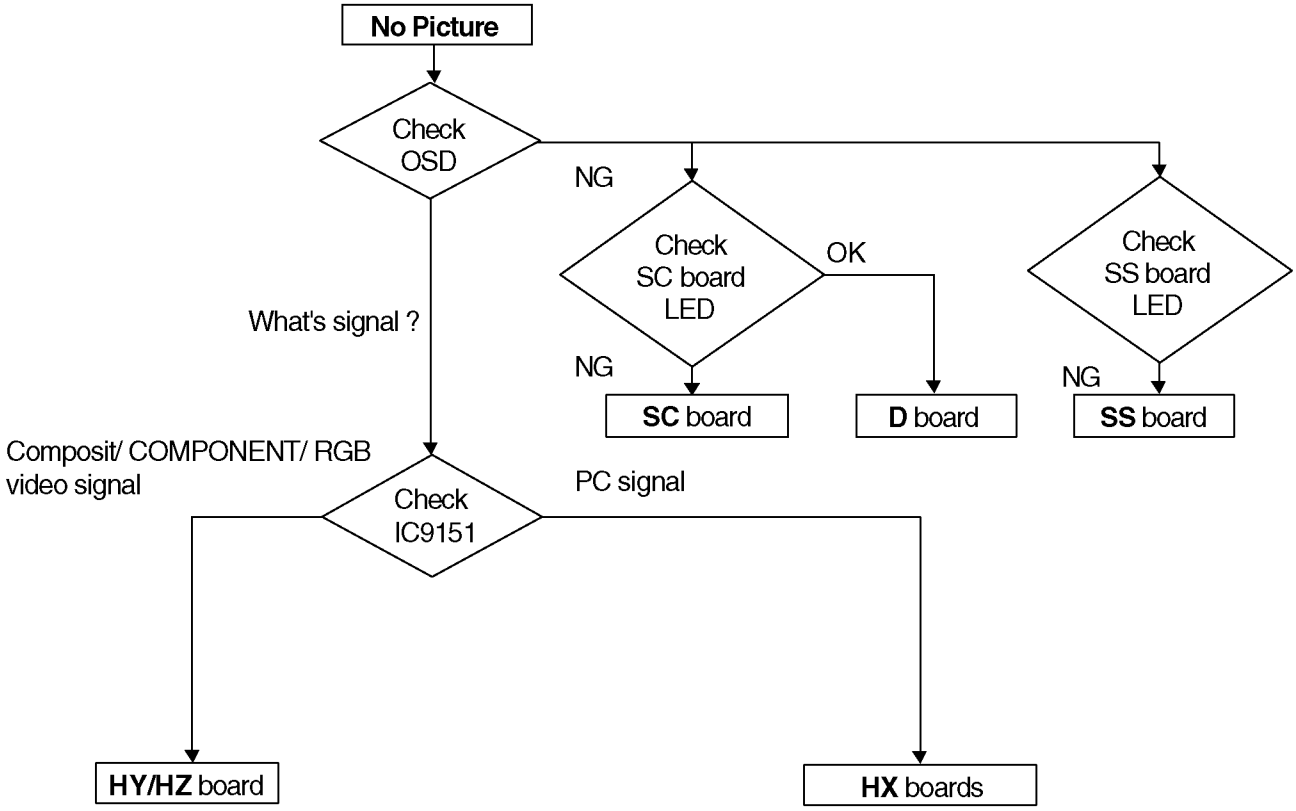
1. No lit



Drive circuits LED indicator

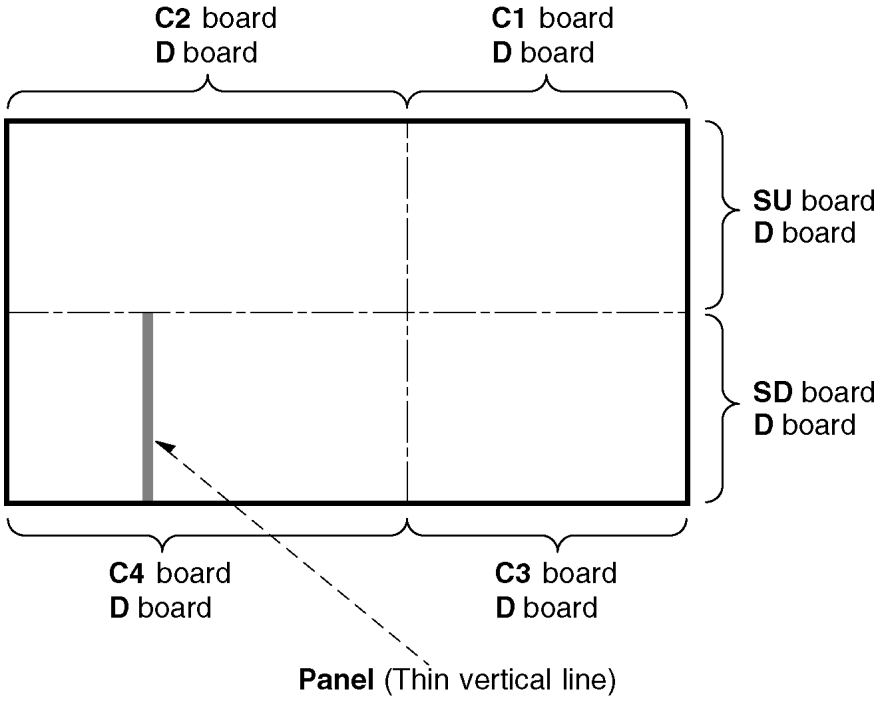


11.3. No Picture



11.4. Local screen failure

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.



<Local screen failure chart>

Fig - 1

12 Option Setting

12.1. How to access and setting

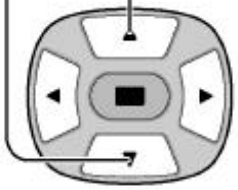
How to access the Option menu

1

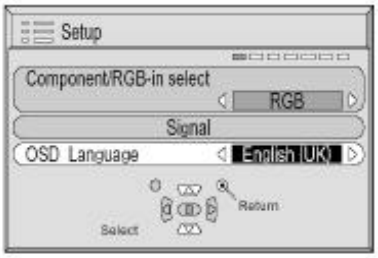


Press to display the Setup menu.

2



Press to select OSD Language.



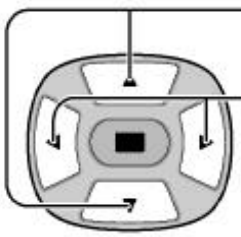
3



Press down for more than 3 seconds to display the Option menu.

Setting the Option menus

1



Press to select the desired item.

Press to select the desired function.

The option menu will disappear 60 seconds after operation.

2



Press to exit Option menu.

12.2. Contents of Option Menu

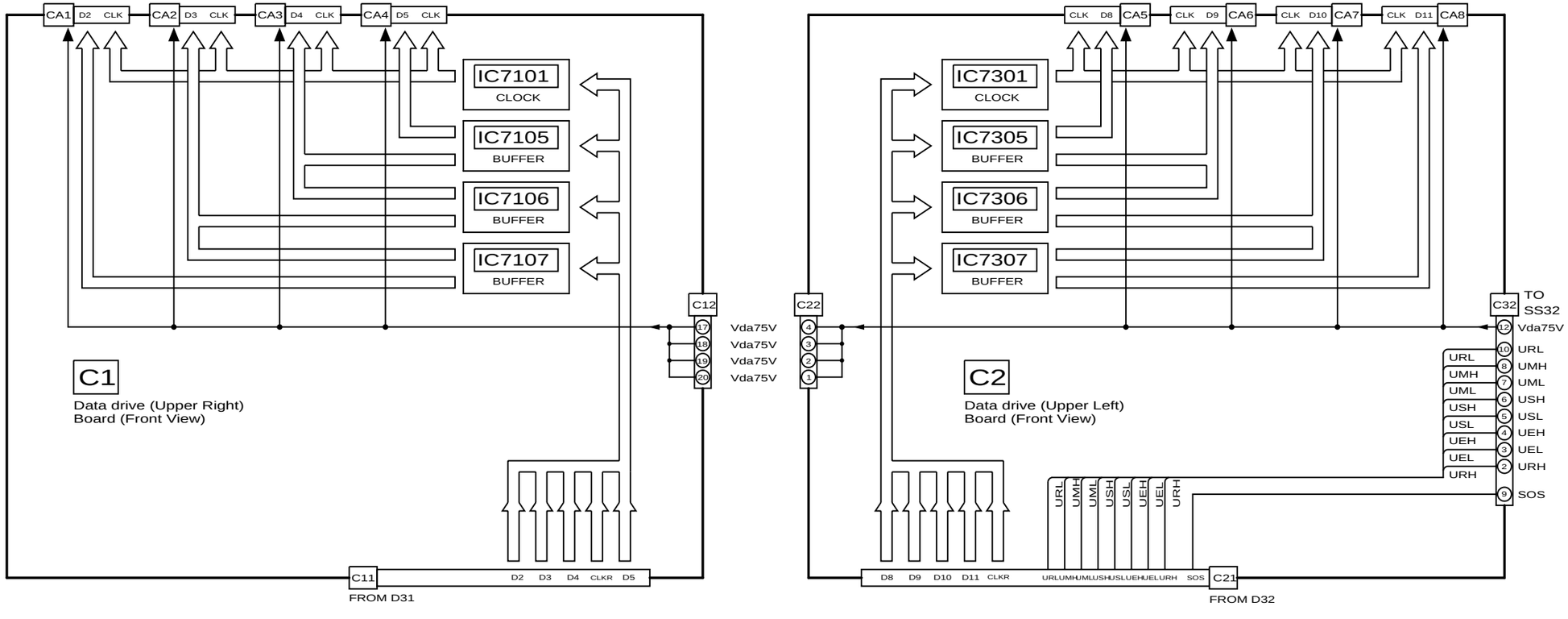
This chassis series have special function and operation setting facility called Option Menu. This Option Menu is useful for special function required customers. This should be set at the installation stage. The end user could not set or change these because of hidden On screen menu.

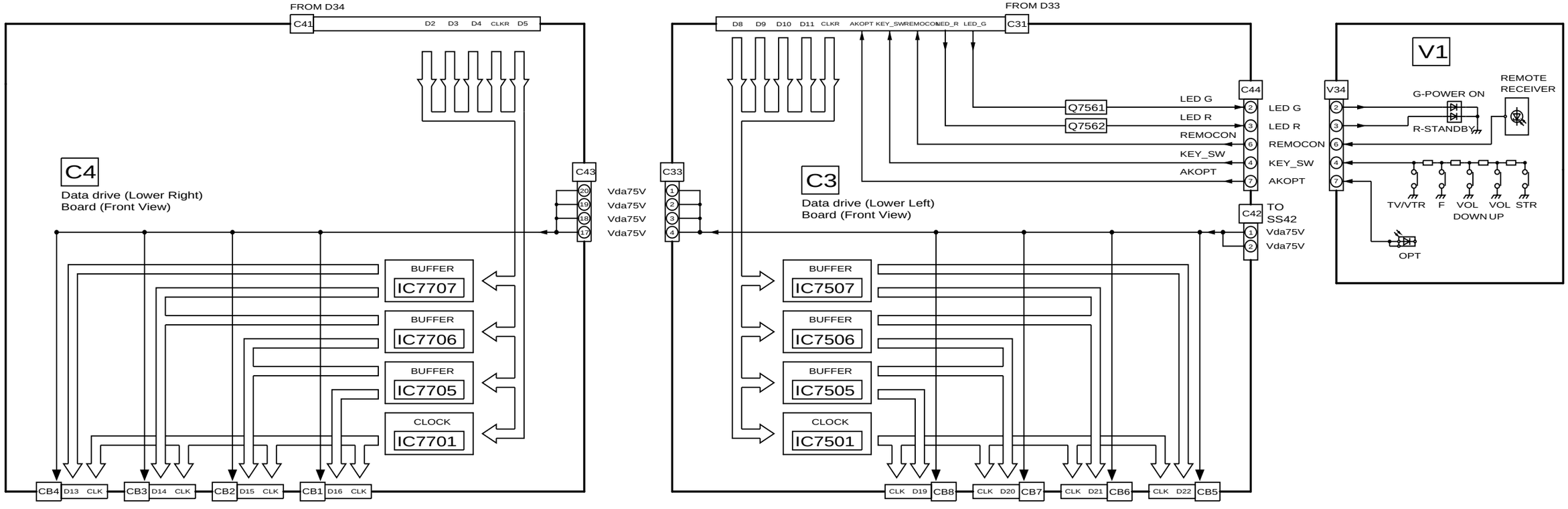
Option menus	default setting	Contents
Off-timer function	Enable	Off-timer operation Enable/Disable.
On Screen display	On	Enable/Disable to display input mode indication after power on and no signal indication.
Initial Input	Off	Sets the initial input mode when the power is turned on . Allow input mode selection while power is on.
Initial VOL. level	Off	Sets the initial volume level when the power is turned on. Allow Volume control while power is on.
Maximum VOL. Level	Off	Sets the maximum volume to desired level. Volume cannot exceed this level.
INPUT lock	Off	Fixes the input mode to AV, Component/RGB or PC. Can not change input mode by input selection key.
Button lock	Off	Enable/Disable front operation buttons (Input and/or volume up/down)
Studio W/B	Off	Set warm mode color temperature to 3,200 Kelvin.
Remocon User Level	Off	Remote key invalidation. Off : Valid key is all key of remote. User1 : Valid key are only Stand-by (ON/OFF), Input, Status, Surround, Sound mute On/Off, and volume adjustment. User2 : Valid key is only Stand-by (ON/OFF). User3 : All keys are null and void
ID Select	0 to 100	Set ID number from 001 to 100.
Remote ID	Off	Remote ID function On/Off. (While the Remote ID on, standard remote function can not control the unit.)
Serial	Off	Serial ID function On/Off
Slot power	Off	Sets the slot power mode the power is turned on. Allow Optional Terminal Board insert Slots while power is on.

Note :

How to set Remocon User Level and Remote ID off

1. Access service mode (CAT-mode) and press SET UP key on remote.
2. Accsess option menu.
3. Change Remocon User Level and/ or Remote ID set to Off.





TH-42PHD6/TH-42PHW6
C1-BOARD, C2-BOARD, C3-BOARD, C4-BOARD and V1-BOARD Block Diagram

D

D-Board(1of2)Block Diagram
LVDS:Low Voltage Differential Signaling

TO J-BOARD J6 — D6
TX0- 2, TX0+ 3, TX1- 5, TX1+ 6, TXG- 8, TXG+ 9, TX3- 14, TX3+ 15, TXC- 11, TXC+ 12

TO J-BOARD J3 — D3
Y S 40, PB S 38, PR S 36

TO J-BOARD J5 — D5
HD 27, VD 29, NCLP 31, Y 21, PB 23, PR 25

IC9002 LVDS/TTL(PARALLEL)
TTL PARALLEL TO LVDS
R/G/B 1, 27, 55
CLK OUT 26
HS OUT 3
VS OUT 5

IC9005 BUS SWITCH
OE

Q9001 SW

IC9003 INVERTER
2, 4

IC9004 SWITCHING
3, 5, 6, 2, 1, 7
CLKC

IC9009 A/D CONVERTER(SUB)
B Pb/B IN 43, G Y/G IN 49, R Pr/R IN 54
CLP
PLL
110M 8BIT ADC
B0 12 ~ B7 19 B(8Bit)
G0 2 ~ G7 9 G(8Bit)
R0 70 ~ R7 77 R(8Bit)
SDA2 57, SCL2 56
SYNC/SEPA
VS OUT 64, HS OUT 66
VD, HD
CLAMP 38, HSYNC 30, VSYNC 31

IC9008 BUS SWITCH
OE

IC9023 5V -> 3.3V
NCLP 31, VD 32, HD 34
13, 15, 17, 2, 4, 6 → 3 HS, 5 VS, 7 CLP, 18 HS, 16 VS, 14 CLP

IC9711 SWITCHING
7, 1, 2, 6, 5, 3
SCL1 4, SDA1 5, SCL2 6, SDA2 7, SCL3 8, SDA3 9
SCL2(IIC 5V), SDA1(IIC 5V)
Q9719 IIC_CONT
5V -> 3.3V Q9704 SCL2(3.3V)
5V -> 3.3V Q9703 SDA2(3.3V)
SDA2, SCL2
SOUND MAIN MUTE 12, CABLE DET 13
SMM, CABLE DET

IC9019 A/D CONVERTER(MAIN)
B Pb/B IN 43, G Y/G IN 48, R Pr/R IN 54
CLP
110M 8BIT ADC
B0 12 ~ B7 19 B(8Bit)
G0 2 ~ G7 9 G(8Bit)
R0 70 ~ R7 77 R(8Bit)
SDA2 57, SCL2 56
SYNC/SEPA
VS OUT 64, HS OUT 66
VD_M, HD_M
CLAMP 38, HSYNC 30, VSYNC 31
PLL 67

IC9018 BUS SWITCH
OE

IC9011 LVDS/TTL(PARALLEL)
TTL PARALLEL TO LVDS
R/G/B 1, 27, 55
CLK OUT 26
HS OUT 3 → HD
VS OUT 5 → VD

IC9015 BUS SWITCH
OE

Q9002 SW

IC9012 INVERTER
2, 4

IC9013 SWITCHING
3, 5, 6, 2, 1, 7
CLKB

D (1/2)
Format Converter

IC9151 FORMAT CONVERTER(I/P)
CLKC
8BIT ADC 110M
RGB /YPbPr
FORMAT CONVERTER (I/P CONVERTER)
CTI/TINT COLOR CONTRAST WB-Adj OSD St-r
F.CLP
SDRAM I/F
DIGITAL C (HD, VD, CLK)
DIGITAL B (HD, VD, CLK)
CLKB
OSD

IC9155 64M SDRAM

IC9154 3.3V -> 5V
IC9014 5V -> 3.3V
IC9157 PLL M (100MHz)
LOCK PLL

B0-B7,G0-G7,R0-R7
LEFT(MASTER)RGB 8bit

B0-B7,G0-G7,R0-R7
RIGHT(SLAVE)RGB 8bit

IC9001, IC9006, IC9007, IC9010, IC9016, IC9017
REG 3.3V
P5V → 3.3V

IC9605 SYNC PROCESSOR OSD
HD S 27, VD S 28
DCKC 77, DCKB 185, HDS I/O 23, VDS I/O 24, HD 7, VD 8, CLP 3, HS C1 206, HS B1 205, VS C1 209, VS B1 208, CLP C1 9, CLP B1 6, HDM I/O 187, VDM I/O 186, HDM I/O 4, VDM I/O 5, CLPM 6
HD 199, VD 198

SERIAL DATA 204
IC9606 RESET
IIC_CONT, IIC_CONT
RESET
SMM

SDA I/O 202 ↔ SDA2
SCL I/O 203 ↔ SCL2
MCVD 18, MCHD 17
IC9703 3.3V -> 5V
17, 15 → 5, 3

IC9602 BUFFER

SMM
SOUND MUTE 61, 68

IC9701 MICRO PROCESSOR
NH IN 13, NV IN 11
A01 ~ A19
D00 ~ D15
RAS, CAS, CE, WE, OE

IC9704 VRAM(1Mbit)

IC9705 FLASH MEMORY (8M ROM)
OSC IN 8, OSC OUT 10 — X9701
OSC IN 38, OSC OUT 39 — X9703

CABLE DET
Q9707 104
AD1 87, SCL3 87, SDA3 88, SCL2 89, SDA2 90, SCL1 70, SDA1 71

IC9702 EEPROM
SDA 5, SCL 6

TH-42PHD6/TH-42PHW6
D-BOARD (1 of 2) Block Diagram

IC9153
REG 5V
UNREG 14V → 1 → 3 → 5V

IC9302
REG 3.3V
P5V → 5 → 4 → 3.3V

IC9152
REG 3.3V
P5V → 5 → 4 → 3.3V

IC9800
DC DC CONVERTER
(1.8V)
UNREG 14V → 1.8V

IC9952
DC DC CONVERTER
(1.8V)
UNREG 14V → 1.8V

IC9951
DC DC CONVERTER
(3.3V)
UNREG 14V → 3.3V

IC9453
DC DC CONVERTER
(3.3V -> 2.5V)
→ 2.5V

IC9454
64M SDRAM

Pleasma AI control
IC9456
FLASH MEMORY
(32M ROM)
RESET 12

IC9459
BUS SW
Q9400 BUS RELEASE

B0-B7,G0-G7,R0-R7
LEFT(MASTER)RGB 8bit

IC9601
NEW PLASMA AI
10bit PROCESSOR
SUB-FIELD PROCESSOR
(L Master) SLV44h
FC RAM I/F
FLASH ROM I/F
DATA DRIVER
FPGA I/F
DATA DRIVER

B0-B7,G0-G7,R0-R7
RIGHT(SLAVE)RGB 8bit
RESET

IC9304
64M SDRAM

IC9651
NEW PLASMA AI
10bit PROCESSOR
SUB-FIELD PROCESSOR
(R Slave) SLV42h
FLASH ROM I/F
DATA DRIVER
FPGA I/F
FC RAM I/F
DATA DRIVER

TO C2-BOARD
C21
D32
Q9596 Q9597 DRVRST-5V
L-UP
DRVRST

TO C3-BOARD
C31
D33
Q9591 Q9594 DRVRST-5V
LED G
LED R
KEY
REMOCON
L-DOWN
DRVRST

TO C1-BOARD
C11
D31
Q9598 Q9599 DRVRST-5V
R-UP
DRVRST

TO C4-BOARD
C41
D34
Q9592 Q9593 DRVRST-5V
R-DOWN
DRVRST

TO J-BOARD
J3
D3
REMOCON_OUT
FAN_CONT
STB_ON
POWER_STATUS
TXD_TU
RXD_TU
REAL TIME/INPUT
TXD_PC
RXD_PC
RESET

IC9703
3.3V -> 5V

IC9605 (2/2)
DISCHARGE
CONTROL
SDA2
SCL2
DRVRST

IC9601
BUFFER
IC9603
BUFFER
IC9604
BUFFER
PCD,PCU

TO SC-BOARD
SC20
D20
SOS1
SOS2

IIC CONT
SMM
RESET
CABLE_SET
STB_ON
POW_STATUS
TXD_TU
RXD_TU
RTC_INT
TXD_PC
RXD_PC

IC9709
SUB MPU(CONVERTER)

X9702
9,216MHz
Q9301 DRVRST

RUSH ON/OFF
TV ON/OFF
KILL SOS
FAN SOS
PS SOS
ALL OFF1
RESET
LED G
LED R
KEY
REMOCON
SOS2
SOS1

IC9710
RESET
STB 5V

TO P-BOARD
P25
D25
15V
15V
5V
FAN_CONT

IC9708
EEPROM
SDA
SCL

IC9707
OR

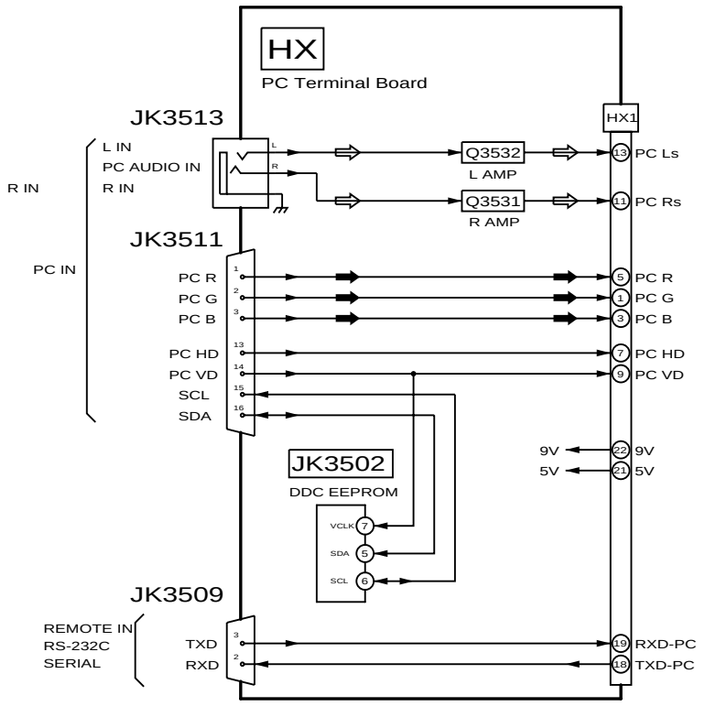
TO P-BOARD
P27
D27
RUSH ON/OFF
TV ON/OFF
M POWER
STB5V
KILL SOS
FAN SOS
PS SOS
ALL OFF1

STB5V_S
STB5V_M
Q9701
Q9702

SCL3 SDA3

D (2/2)
Plasma AI Sub-Field Processor

TH-42PHD6/TH-42PHW6 D-BOARD (2 of 2) Block Diagram



TH-42PHD6/TH-42PHW6
HX-BOARD Block Diagram

HY

CVBS & RGB/COMPONENT(BNC) Terminal Board

AV

JK3001 S-VIDEO IN — C IN, Y IN

JK3002 VIDEO IN/OUT — VIDEO IN, VIDEO OUT

JK3004 AUDIO IN — L IN, R IN

Q3004 INV. → Q3401 SW

IC3401 AMP & SW

L.P.F. → Q3403 BUFFER → Q3101,3102 BUFFER → IC3103 GC2M

Q3005 BUFFER → L3006 L.P.F. → Q3007 BUFFER → Q3104 BUFFER → IC3103 GC2M

Y CLIP

Q3309 BUFFER

Q3051 L AMP

Q3052 R AMP

IC3104 RESET

IC3201 FOR NTSC 3D COMB FILTER

5M FIFO

MEMORY CONTROLLOR

IC3103 GC2M: Analog Front-End; AGC 2 x ADC; Adaptive Comb Filter; Color Decoder NTSC PAL SECAM NTSC PAL; Saturation Tint; Mixer; 2DScalar PIP Panorama Contast Brightness Peaking; Output Formatter; IIC Bus; Clock Gen.; Sync + Clock Generation; H Sync; V Sync; LL Clock; X3101

IC3251 LVDS TRANSMITTER

TTL PARALLEL TO LVDS

R07 R00 G07 G00 B07 B00 HS VS CLK IN CLKSEL /PDWN PLL

TX0+ TX0- TX1+ TX1- TX2+ TX2- TX3+ TX3- TXC+ TXC-

IC3305 DAC ICC EXPANDER

/POWN CLK SEL S DET

IC3105 5V<=>3.3V

IC3311 5V<=>3.3V

IC3699 EEPROM

H0: SDA SCL SRQ STB5V

H1 TO J11: SRQ

IC3101 2.5V REG

IC3302 2.5V REG

IC3303 PLL 2.5V REG

IC3301 3.3V REG

3.3V 5V 9V

SCL2 SDA2 L R S2 DET

H2 TO J12: AUDIO L AUDIO R

JK3303 AUDIO IN — L IN, R IN

Q3503 L AMP

Q3504 R AMP

JK3304 COMPONENT /RGB — Y, PB, PR, H, V

R/PR G/Y B/PB H/HV V

Q3505,3506 HD AMP

Q3501,3502 VD AMP

COMPONENT /RGB

TH-42PHD6/TH-42PHW6
HY-BOARD Block Diagram

J

Slot Interface/SYNC Processor Board

TO D-BOARD D5 — J5 (TX0- TX0+ TX1- TX1+ TX2- TX2+ TXC- TXC+ TX3- TX3+ G B R HD VD CLP)

TO HY-BOARD H1 — J11

TO HY-BOARD H2 — J12

TO D-BPARD D6 — J6 (TX0- TX0+ TX1- TX1+ TX2- TX2+ TXC- TXC+ TX3- TX3+)

TO D-BOARD D3 — J3

TO PF-BOARD PF10 — J10

TO HX-BOARD HX1 — J14

TO Z-BOARD Z8 — J8

IC3005 INPUT SW (VIDEO)

RGB/COMP, PC

IC3251 BUFFER/LPF

IC3201 BUFFER/LPF

Q3105 AMP, Q3104 AMP, Q3106 AMP, Q3102 AMP, Q3101 AMP, Q3103 AMP

IC8008 SUB

Q8001 AMP, CS(S)

IC8007 MAIN

Q8002 AMP

IC8009

CS(M)

IC8003 SYNC SEPA

CLAMP, CLAMP/H, HD, VD

IC8004 SYNC SEPA

CLAMP, CLAMP/H, HD, VD

IC8005 INVERTER

NCLP, VD, HD

IC8005 INVERTER

NCLP, VD, HD

IC8001 INPUT SELECT

SW0, SW1

IC8002 INPUT SELECT

SW2, SW3

Q8010,8011 HD AMP

Q8012,8013 VD AMP

IC951

DR15V → REG → 12V

IC952

DIG12V → REG → 9V

IC3108

9V → REG → 5V

IC3109

9V → REG → 5V

IC1001 TIMER

X9350, 32.768K

IC3002 IIC SW

IC3004 EXPAND I/O

IIC SW, SLOT1 DET, SLOT2 DET

IC3003 EXPAND I/O

FAN CONT, SW0–SW3, CS(S)

IC3007

+9V

IC3001 AUDIO SW

Q3002 AMP, Q3003 AMP

IC3006 EXPND I/O

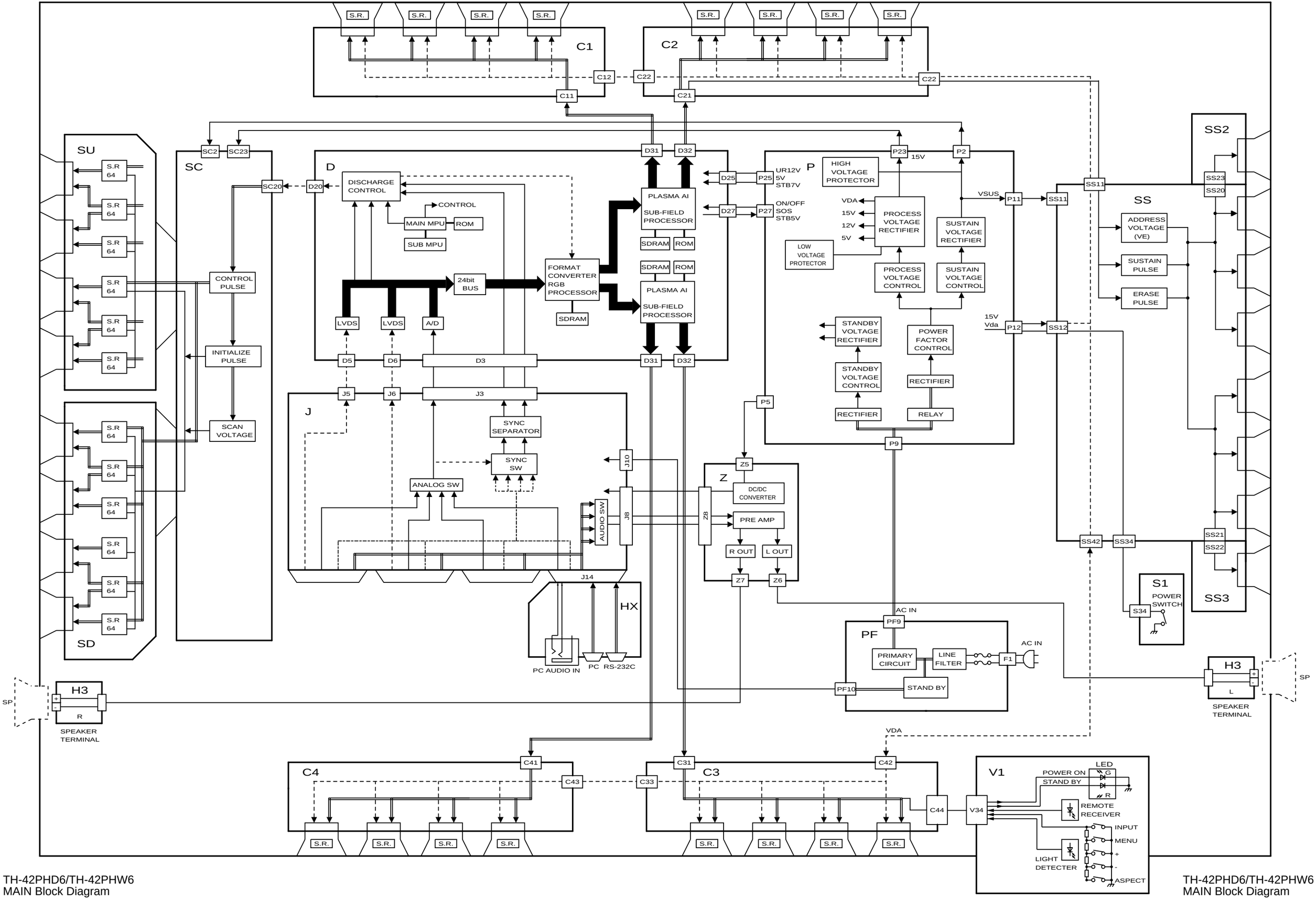
DAC, SW0, SW1, CS(M), SCL, SDA

IC8015 RS232C DRIVER

TXD, RXD, RS232C SERIAL

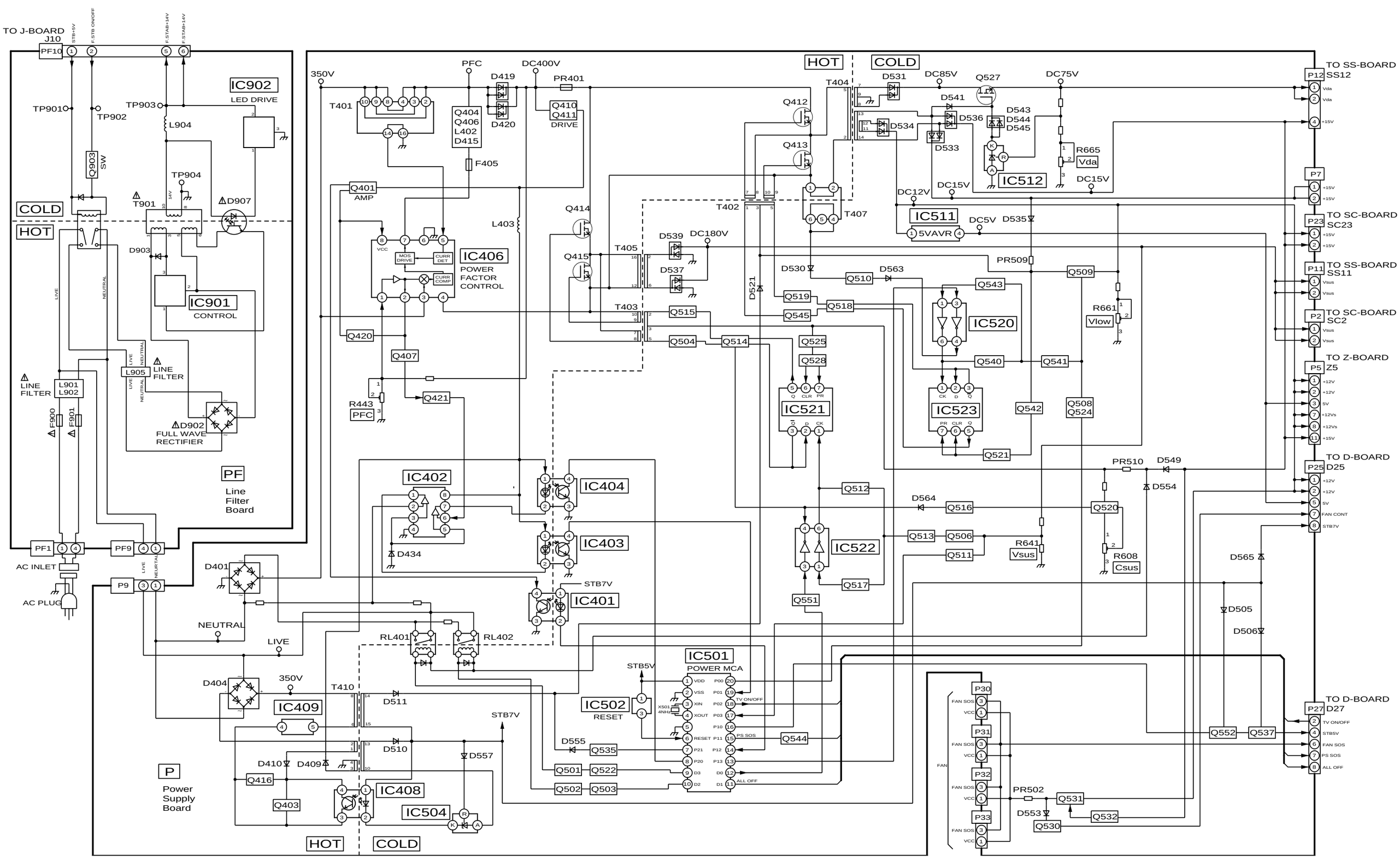
TH-42PHD6/TH-42PHW6
J-BOARD Block Diagram

TH-42PHD6/TH-42PHW6
J-BOARD Block Diagram



TH-42PHD6/TH-42PHW6
MAIN Block Diagram

TH-42PHD6/TH-42PHW6
MAIN Block Diagram



TH-42PHD6/TH-42PHW6
POWER Block Diagram

SC
Scan Drive Board

TO D20 SC20
CSH 18
CSL 17
CMH 20
CML 19
CEH 14
CEL 13
CPH 9
CEL2 8
CL 2
CLK 3
SIU 4
SID 6
SCSU 7
SOS1 11
SOS2 12

IC6605 BUFFER
IC6604 BUFFER
IC6606 BUFFER

IC6602 FET DRIVER
Q6627 Q6628
CSH
Q6621 Q6622
D6615 D6616
L6611,12,13 L6614,15,16
S1
IC6603 FET DRIVER
Q6629 Q6630
CSL
Q6624 Q6625
D6617 D6618
1/2 Vo
IC6601 FET DRIVER
Q6611 Q6612
S2 CMH
Q6601 Q6604
VSUS
Q6613 Q6614
S3 CML
Q6605 Q6608

Q6617
Q6616

D6584
IC6581 Q6581
D6583 (RED LED)

D6505 PHOTO COUPLE
CL
D6506 PHOTO COUPLE
CLK
D6507 PHOTO COUPLE
SIU
D6508 PHOTO COUPLE
SID
D6501 PHOTO COUPLE
CEL2

IC6501 INVERTER
FCLD
FCLU
FCLKD
FCLKU
IC6502 INVERTER
FSIU
FSID

IC6511 LOGIC
Q6501
SC Q6511
SC Q6512
Q6476
Q6477
VAD+15V
VSCN

IC6452 15V REG
15V
IC6453 15V REG
IC6454 5V REG
5V
IC6455 5V REG

VSET REG.
Q6491 Q6492
IC6491
VSUS
FISV
Q6431 T6431
Q6432 D6434
Q6435 IC6431
VSCN GEN VSET
Q6451 Q6452
Q6454 Q6455
T6451 IC6451
D6454 IC6452

D6502 PHOTO COUPLE
CPH
Q6502
IC6521 LOGIC
Q6520 Q6521
VSET INSERT
Q6523
CPH
Q6554 Q6555
VSET

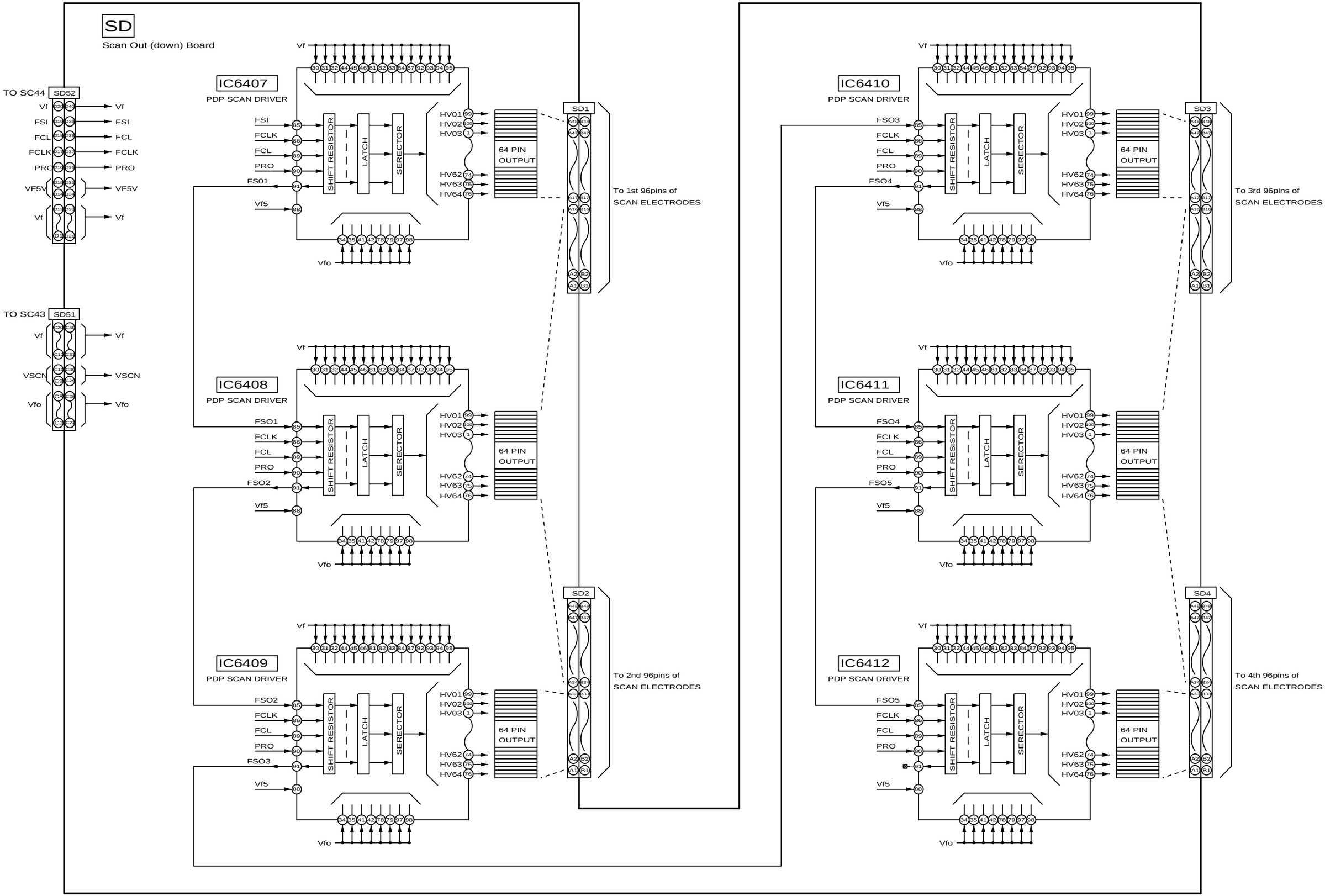
D6503 PHOTO COUPLE
CEL
Q6503
IC6541 LOGIC
Q6525 Q6526
VSET2 INSERT
Q6551 Q6552
CEL
Q6556 Q6557

D6504 PHOTO COUPLE
SCSU
Q6504
IC6542 LOGIC
Q6524
Q6561
VAD INSERT
Q6562 Q6564
SCSU
VAD
VAD GEN
Q6471 Q6472
Q6474 Q6475
D6474 IC6471
T6471 IC6472

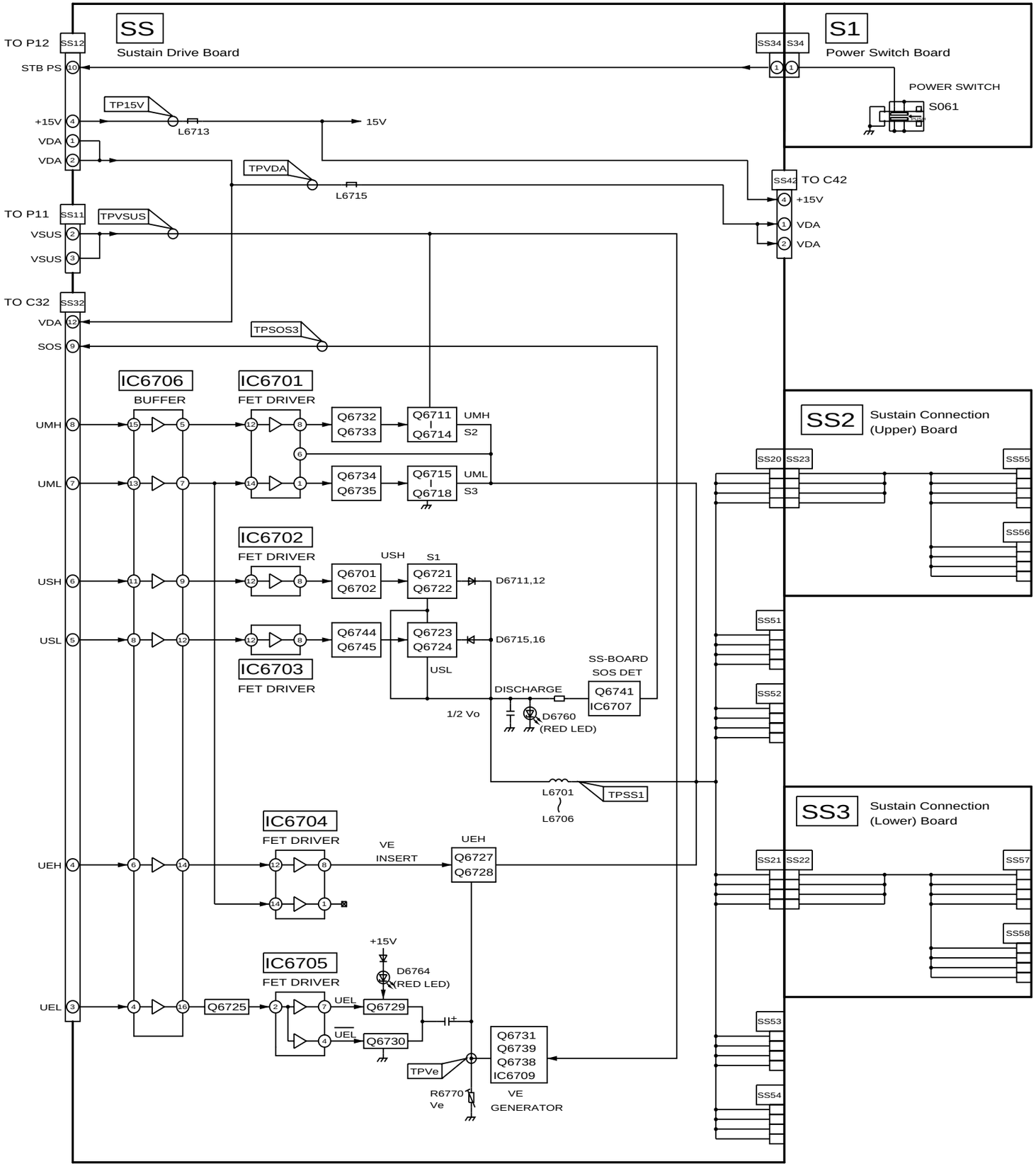
D6559 D6458 Vf5 SOS
D6468 D6467 Vfo SOS
D6470 D6469 VSCAN SOS
D6479 D6480 VAD SOS

SC44 TO SD52
Vf FSID FCLD FCLKD PROD VF5V Vf
SC43 TO SD51
Vf VSCN VSCN Vfo
SC41 TO SU51
Vf FSIU FCLU FCLKU PROU VF5V Vf
SC42 TO SU52
Vf VSCN VSCN Vfo

TH-42PHD6/TH-42PHW6 SC-BOARD Block Diagram

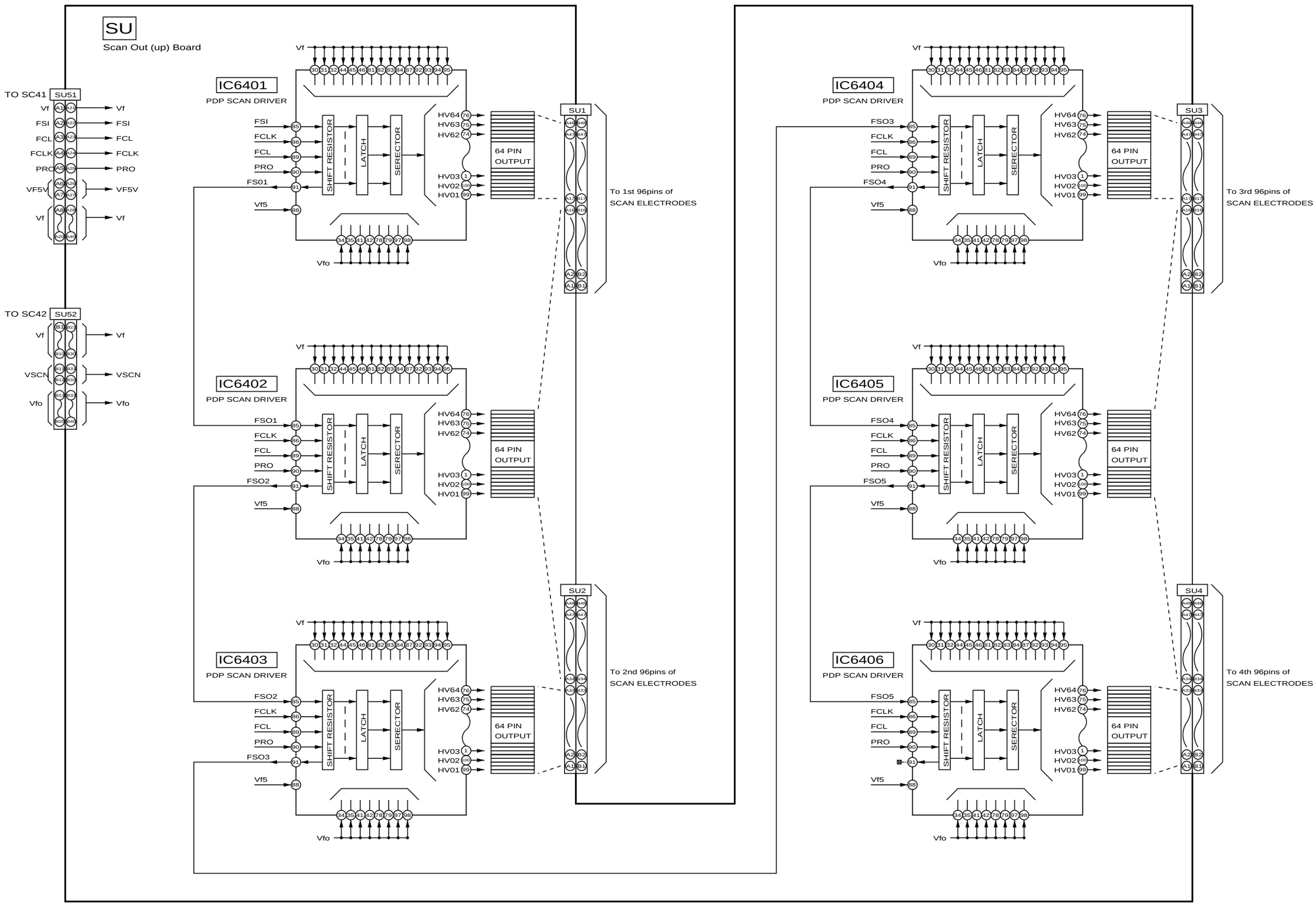


TH-42PHD6/TH-42PHW6
SD-BOARD Block Diagram

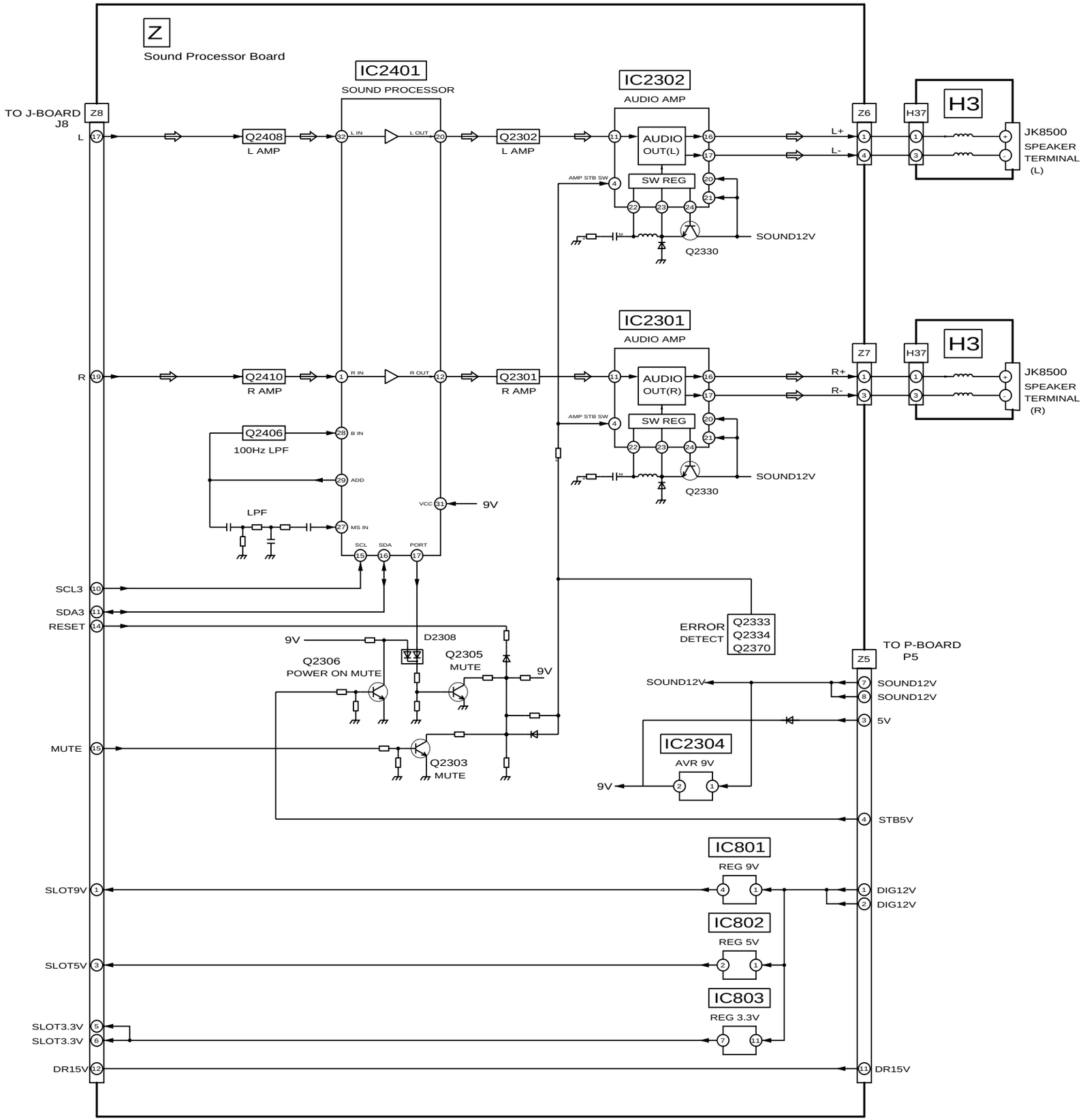


TH-42PHD6/TH-42PHW6
S1-BOARD, SS-BOARD, SS2-BOARD and SS3-BOARD Block Diagram

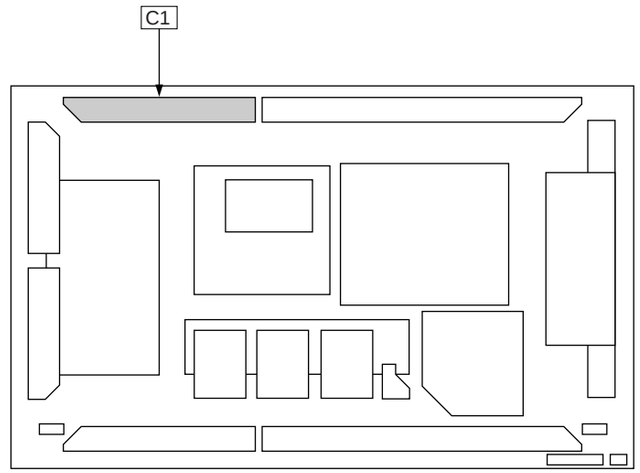
TH-42PHD6/TH-42PHW6
S1-BOARD, SS-BOARD, SS2-BOARD and SS3-BOARD Block Diagram



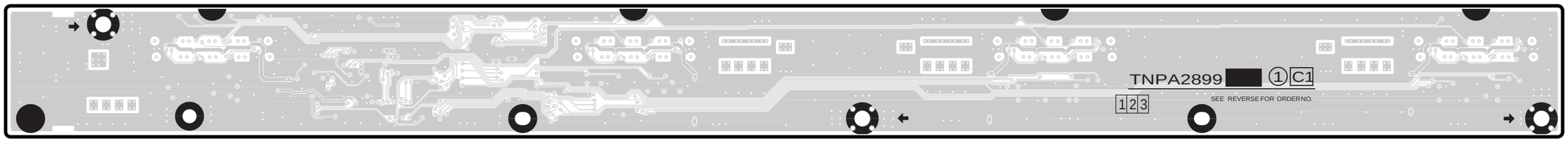
TH-42PHD6/TH-42PHW6
SU-BOARD Block Diagram



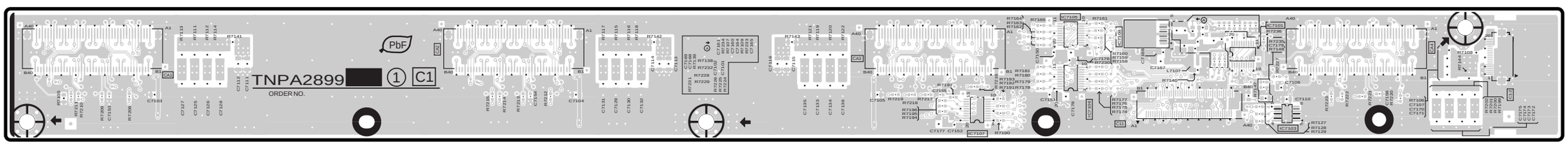
TH-42PHD6/TH-42PHW6
Z-BOARD and H3-BOARD Block Diagram



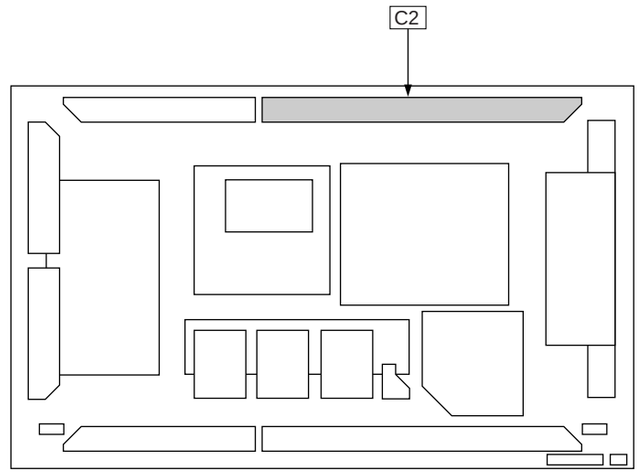
C1-BOARD(FOIL SIDE)
TNPA2899



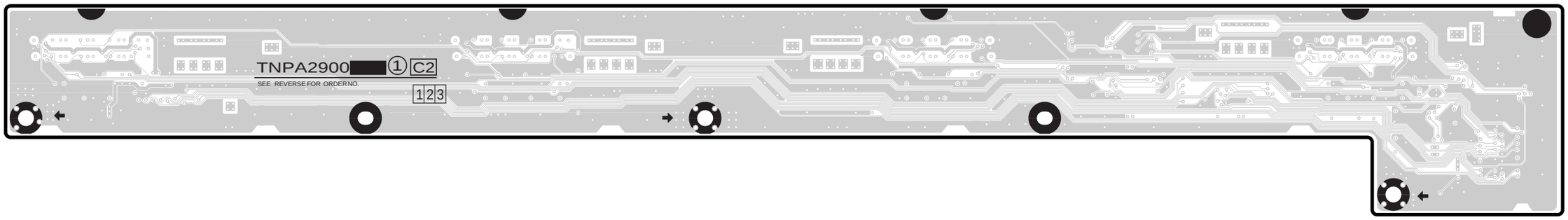
C1-BOARD(COMPONENT SIDE)
TNPA2899



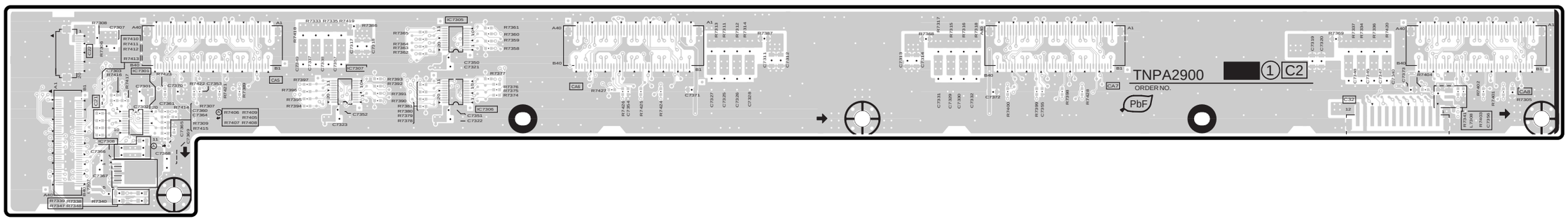
TH-42PHD6/TH-42PHW6
C1-BOARD TNPA2899



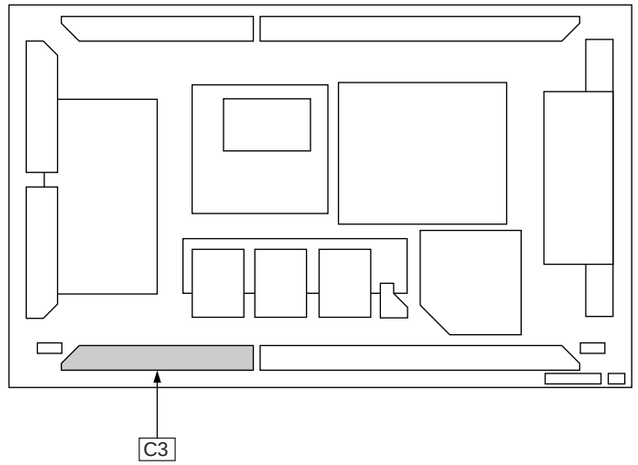
C2-BOARD(FOIL SIDE)
TNPA2900



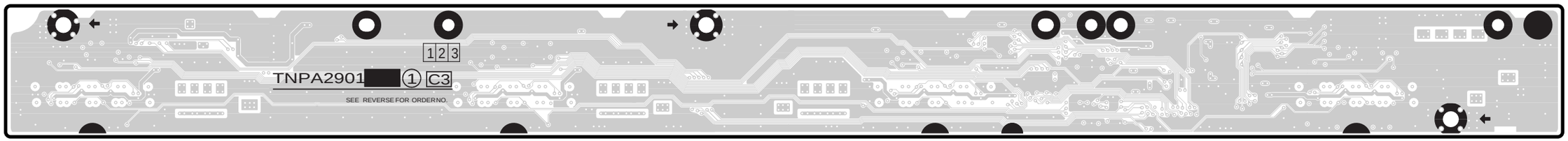
C2-BOARD(COMPONENT SIDE)
TNPA2900



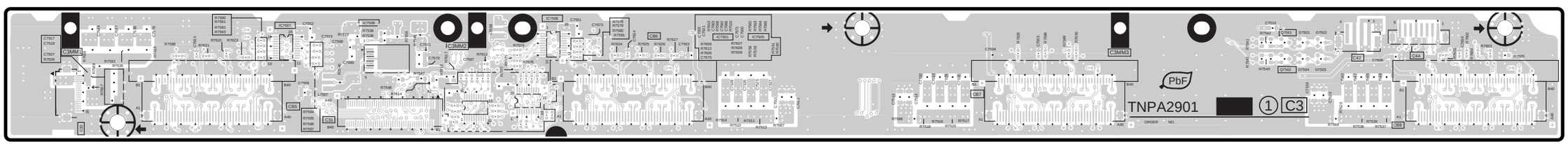
TH-42PHD6/TH-42PHW6
C2-BOARD TNPA2900



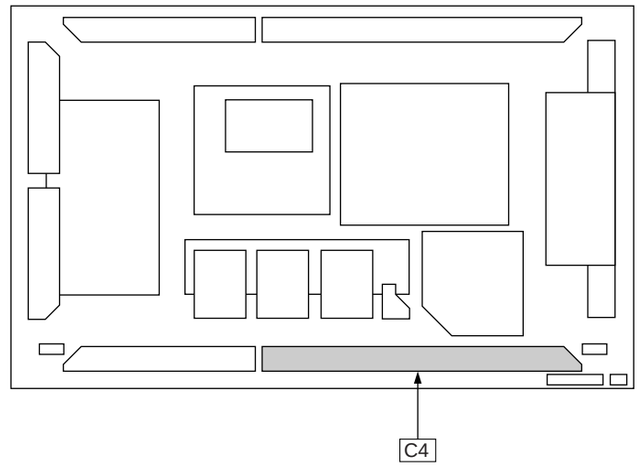
C3-BOARD(FOIL SIDE)
TNPA2901



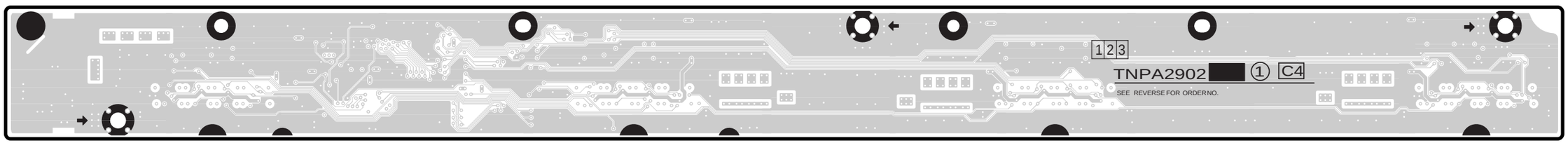
C3-BOARD(COMPONENT SIDE)
TNPA2901



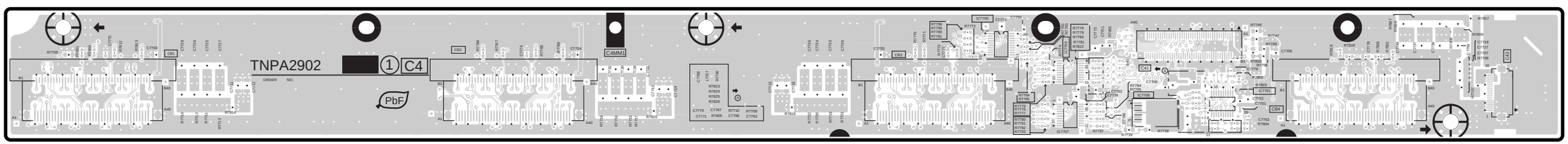
TH-42PHD6/TH-42PHW6
C3-BOARD TNPA2901



C4-BOARD(FOIL SIDE)
TNPA2902

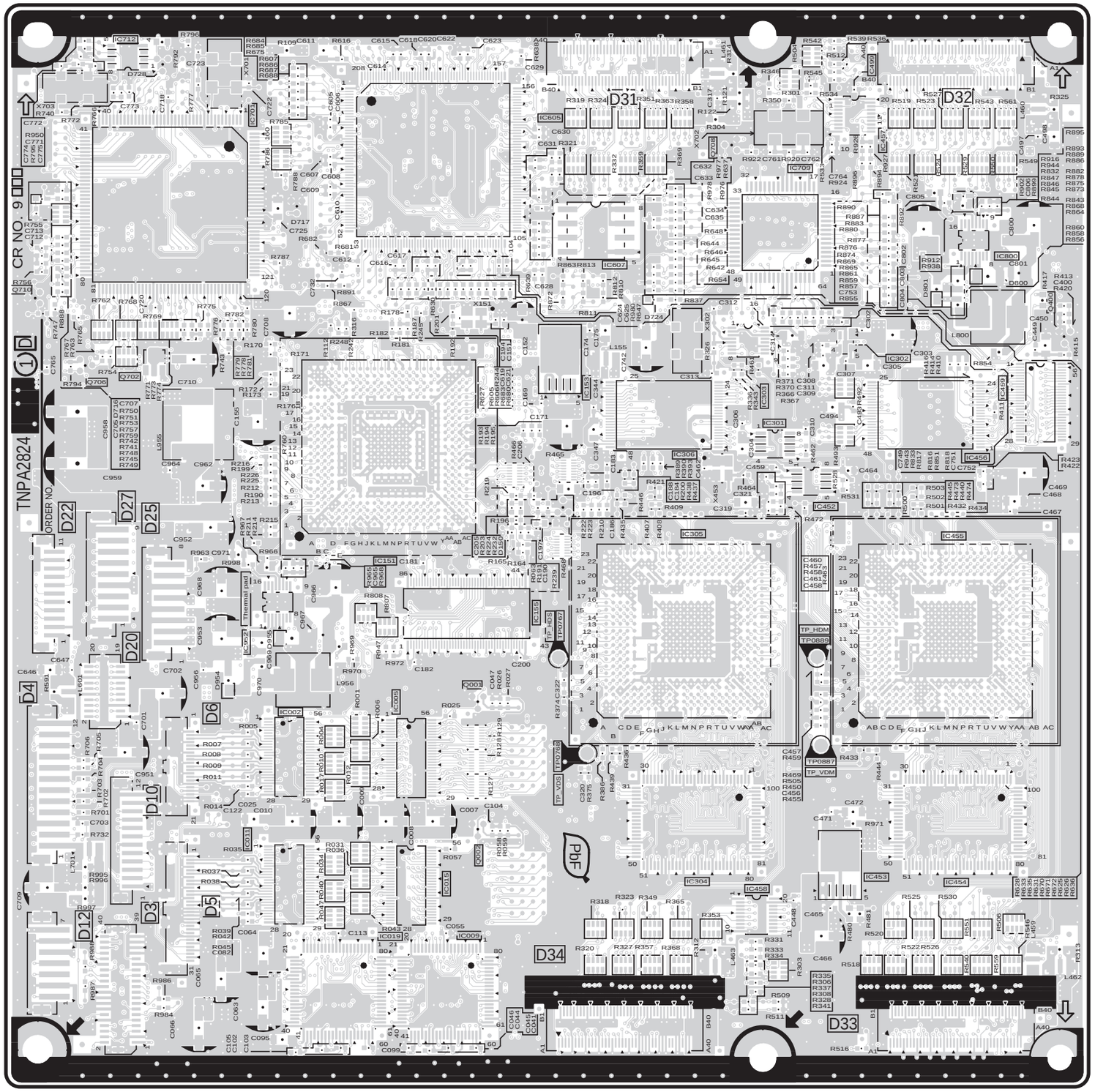


C4-BOARD(COMPONENT SIDE)
TNPA2902



TH-42PHD6/TH-42PHW6
C4-BOARD TNPA2902

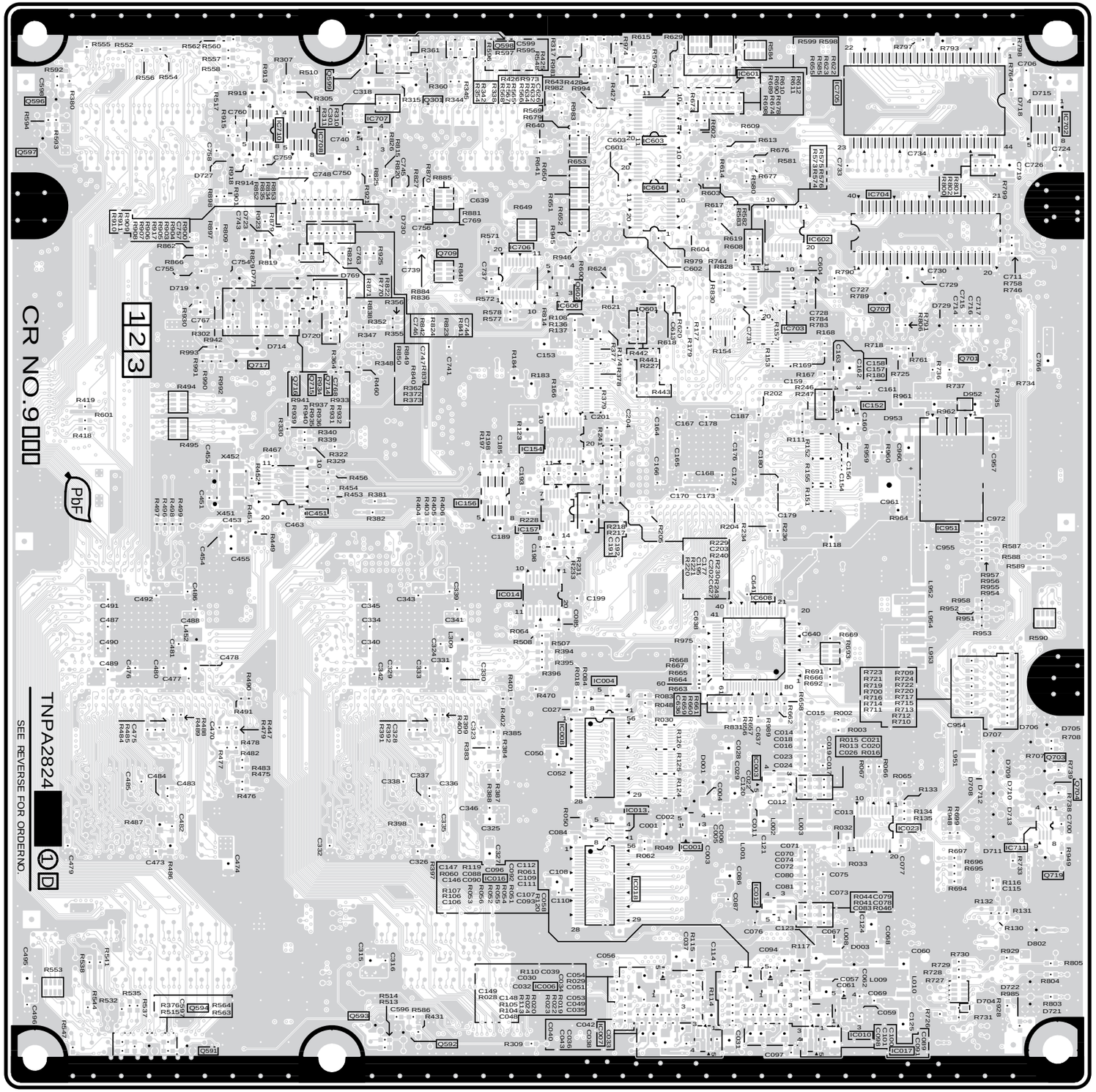
D-BOARD(COMPONENT SIDE)
TZTNP01QJSU



TH-42PHD6/TH-42PHW6
D-BOARD TZTNP01QJSU

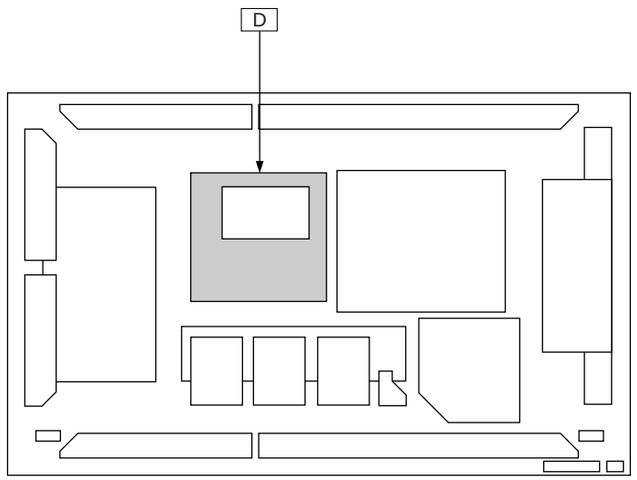
TH-42PHD6/TH-42PHW6
D-BOARD TZTNP01QJSU

D-BOARD(FOIL SIDE)
TZTNP01QJSU



TH-42PHD6/TH-42PHW6
D-BOARD TZTNP01QJSU

TH-42PHD6/TH-42PHW6
D-BOARD TZTNP01QJSU



Parts Location

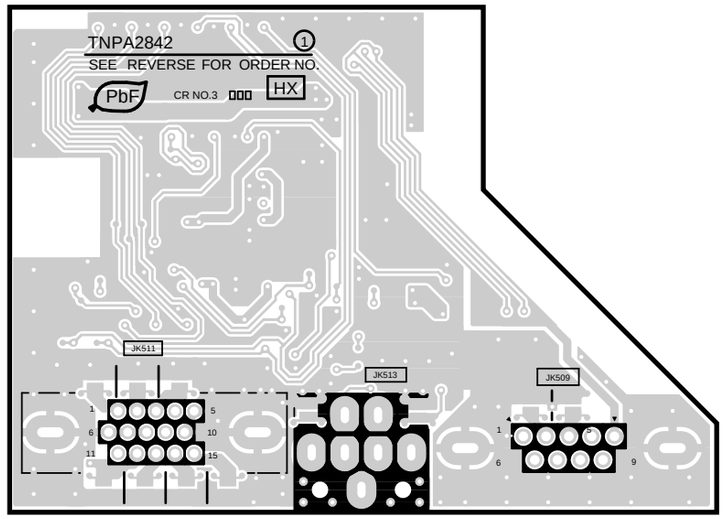
D-BOARD (FOIL SIDE)					
IC		IC603	D-6	**TRANSISTOR**	
IC001	D-2	IC604	D-5	Q301	C-6
IC003	E-2	IC606	D-5	Q591	B-1
IC004	D-3	IC608	E-3	Q592	C-1
IC006	D-1	IC702	F-6	Q593	C-1
IC007	D-1	IC703	E-5	Q594	B-1
IC008	D-3	IC704	E-5	Q596	A-6
IC010	E-1	IC705	E-6	Q597	A-6
IC012	E-2	IC706	C-5	Q598	C-6
IC013	D-2	IC707	C-6	Q599	C-6
IC014	C-3	IC708	B-6	Q601	D-5
IC016	C-2	IC710	B-6	Q602	D-5
IC017	E-1	IC711	F-2	Q701	F-4
IC018	D-2	IC951	F-4	Q703	F-3
IC023	E-2			Q704	F-2
IC152	E-4			Q707	E-5
IC154	C-4			Q709	C-5
IC156	C-4			Q714	B-4
IC157	C-4			Q715	B-4
IC451	B-4			Q716	B-4
IC601	D-6			Q717	B-4
IC602	E-5			Q719	F-2

Parts Location

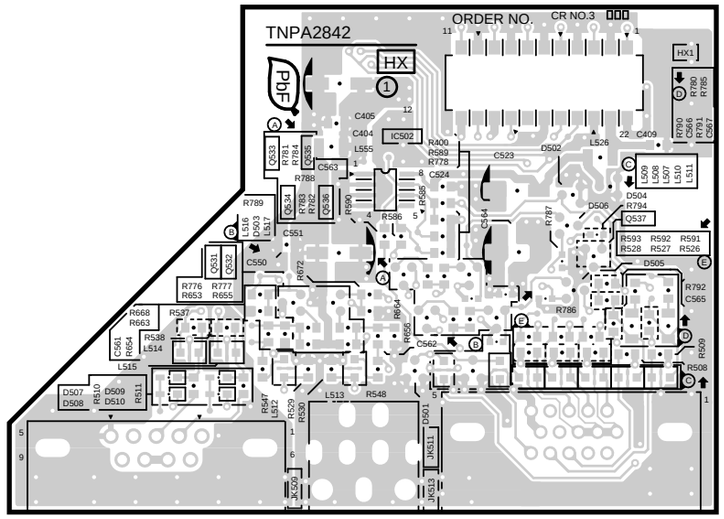
D-BOARD (COMPONENT SIDE)					
IC		IC459	F-4	**TRANSISTOR**	
IC002	B-3	IC515	C-4	Q001	C-3
IC005	C-3	IC605	C-6	Q002	C-2
IC009	C-2	IC607	D-5	Q400	F-5
IC011	B-2	IC701	B-6	Q702	A-4
IC015	C-2	IC709	E-5	Q706	A-4
IC019	C-2	IC712	A-6	Q708	D-6
IC153	D-4	IC800	F-5	Q710	A-5
IC156	C-3			**TP**	
IC301	E-4			TP0767	D-3
IC302	E-4			TP0768	D-3
IC303	E-4			TP0887	E-3
IC304	D-2			TP0889	E-3
IC305	D-4				
IC306	D-4				
IC452	E-4				
IC453	E-2				
IC454	F-2				
IC455	F-3				
IC456	F-4				
IC457	E-6				
IC458	E-2				

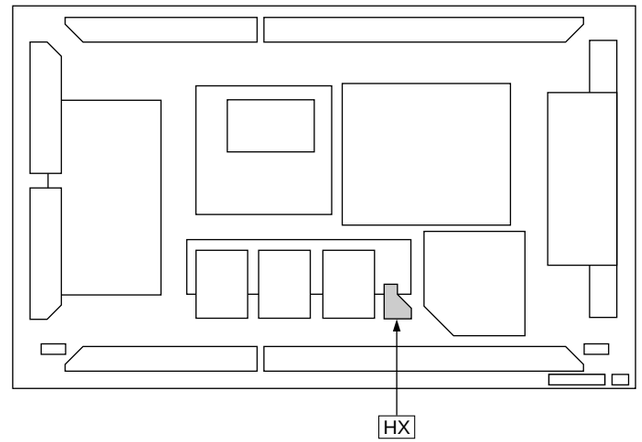
TH-42PHD6/TH-42PHW6
D-BOARD PARTS LOCATION

HX-BOARD(FOIL SIDE)
TZTNP020QJS



HX-BOARD(COMPONENT SIDE)
TZTNP020QJS



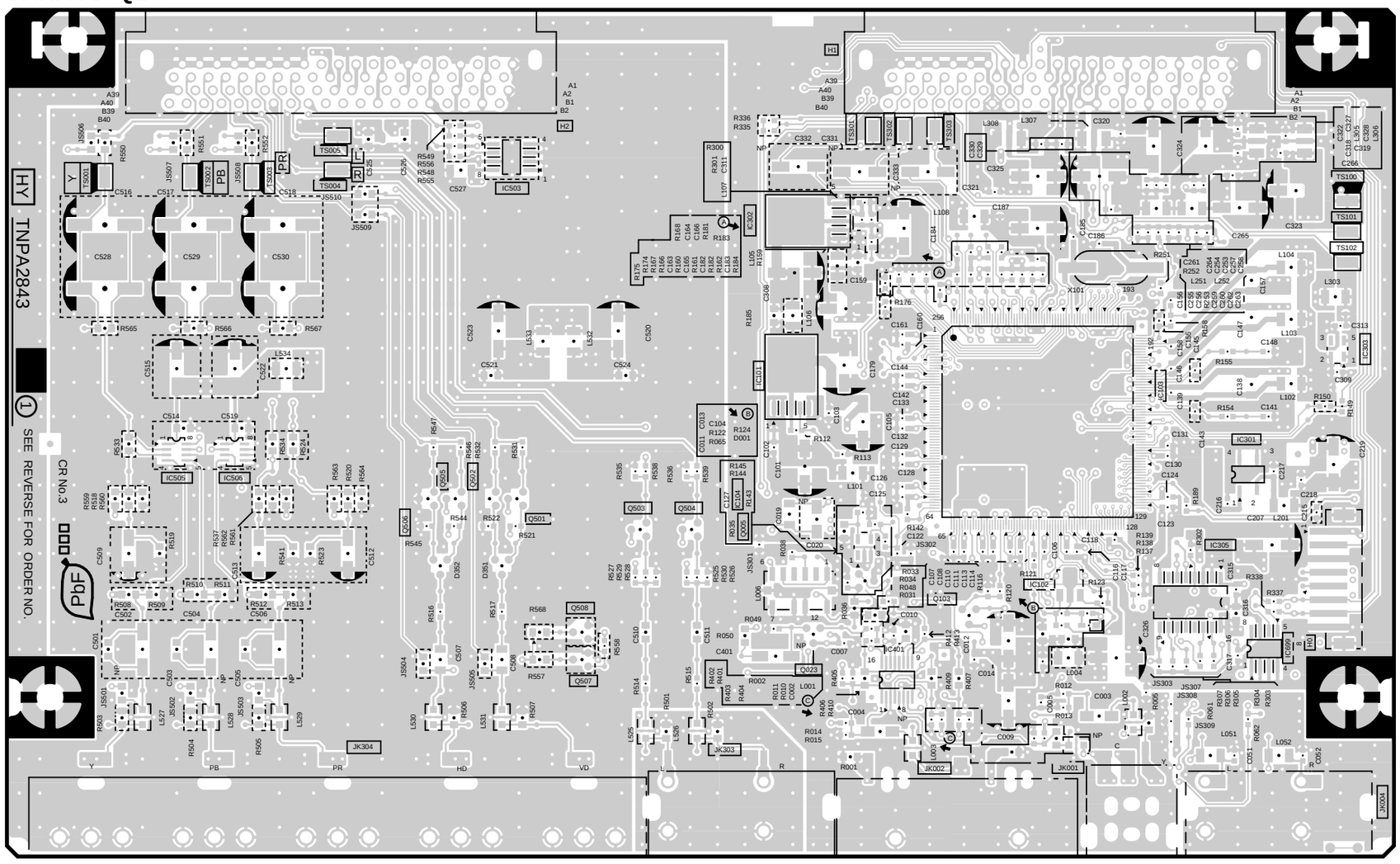


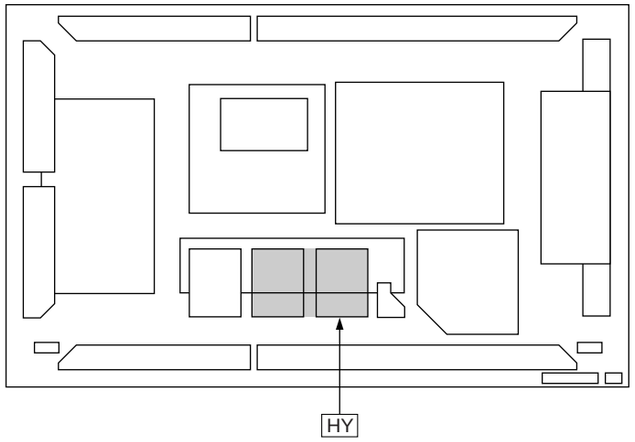
Parts Location

HX-BOARD			
IC		**TRANSISTOR**	
IC3502	E-4	Q3531	D-4
		Q3532	D-4
		Q3533	E-4
		Q3534	E-4
		Q3535	E-4
		Q3536	E-4
		Q3537	F-4

TH-42PHD6/TH-42PHW6
HX-BOARD TZTNP020QJS

HY-BOARD(COMPONENT SIDE)
TXNHY10QBS



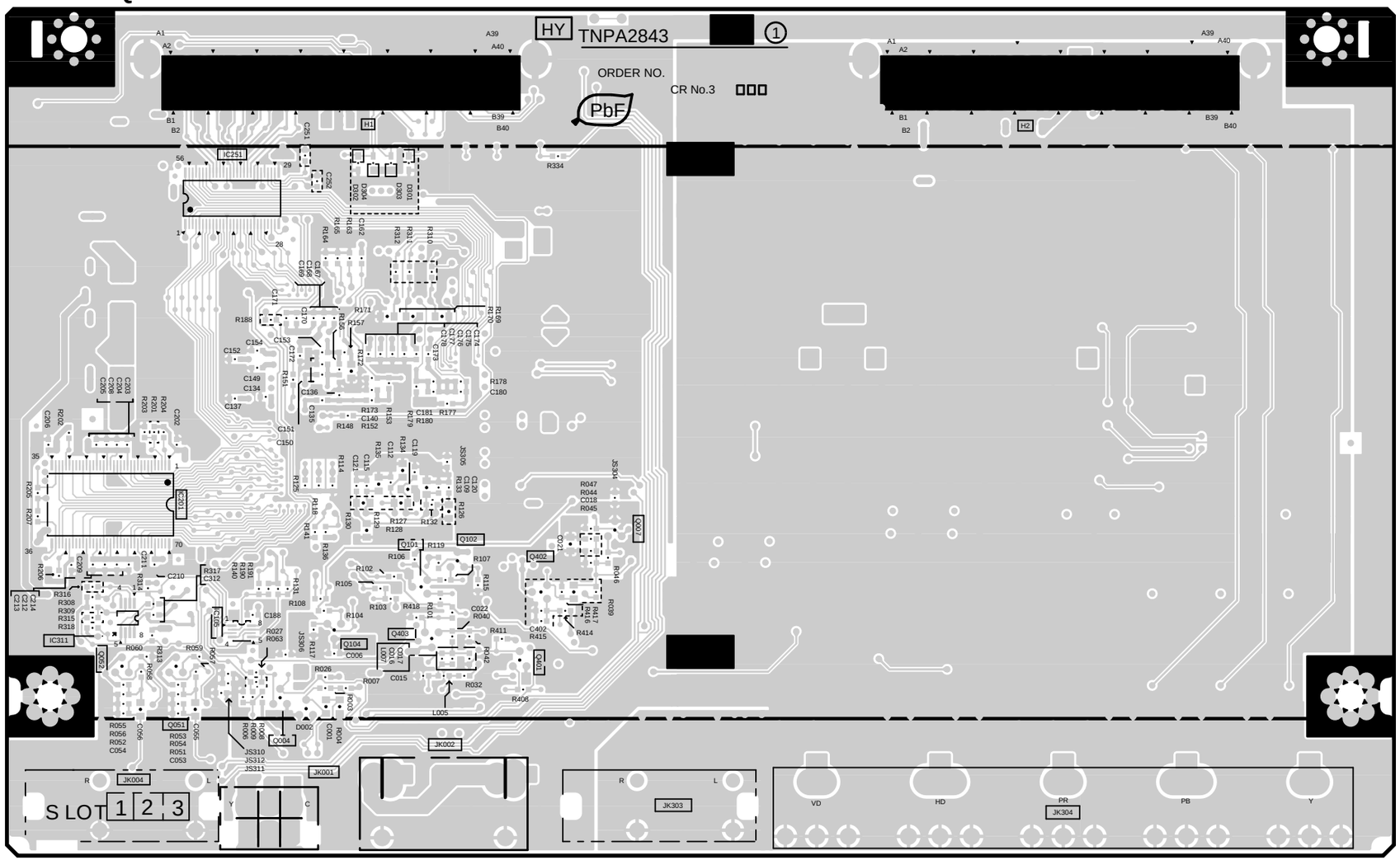


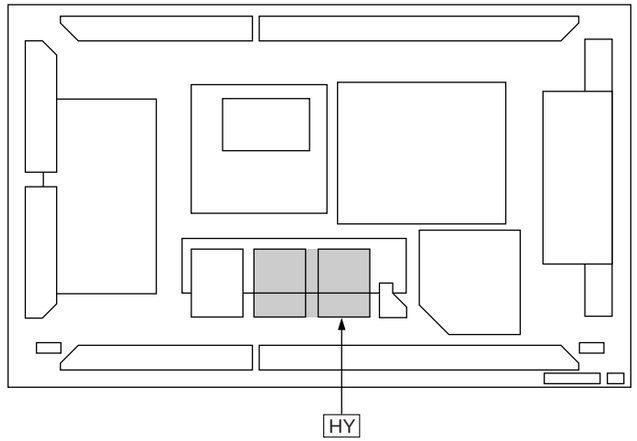
Parts Location

HY-BOARD (COMPONENT SIDE)			
IC		**TRANSISTOR**	
IC3101	D-4	Q3005	D-3
IC3102	E-3	Q3023	D-2
IC3103	E-3	Q3103	E-3
IC3104	D-3	Q3501	C-3
IC3301	F-3	Q3502	C-3
IC3302	D-4	Q3503	D-3
IC3303	G-4	Q3504	D-3
IC3305	F-3	Q3505	C-3
IC3401	E-2	Q3506	C-3
IC3503	C-5	Q3507	C-2
IC3505	B-3	Q3508	C-3
IC3506	B-3	**TP**	
IC3699	F-2	TS001	A-5
		TS002	B-5
		TS003	B-5
		TS004	B-6
		TS005	B-7
		TS100	G-4
		TS101	G-4
		TS102	G-4
		TS301	E-5
		TS302	E-5
		TS303	E-5

TH-42PHD6/TH-42PHW6
HY-BOARD TXNHY10QBS

HY-BOARD(FOIL SIDE)
TXNHY10QBS

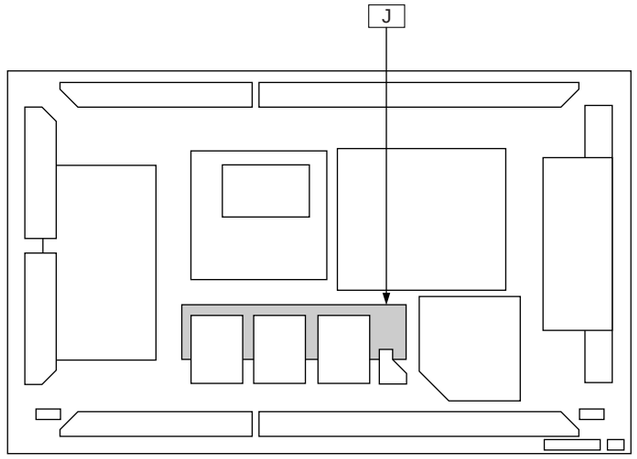




Parts Location

HY-BOARD (FOIL SIDE)			
IC		**TRANSISTOR**	
IC3105	B-3	Q3004	B-2
IC3201	A-3	Q3007	D-3
IC3251	B-4	Q3051	A-2
IC3311	A-3	Q3052	A-2
		Q3101	C-3
		Q3102	C-3
		Q3104	B-2
		Q3401	C-2
		Q3402	C-3
		Q3403	B-3

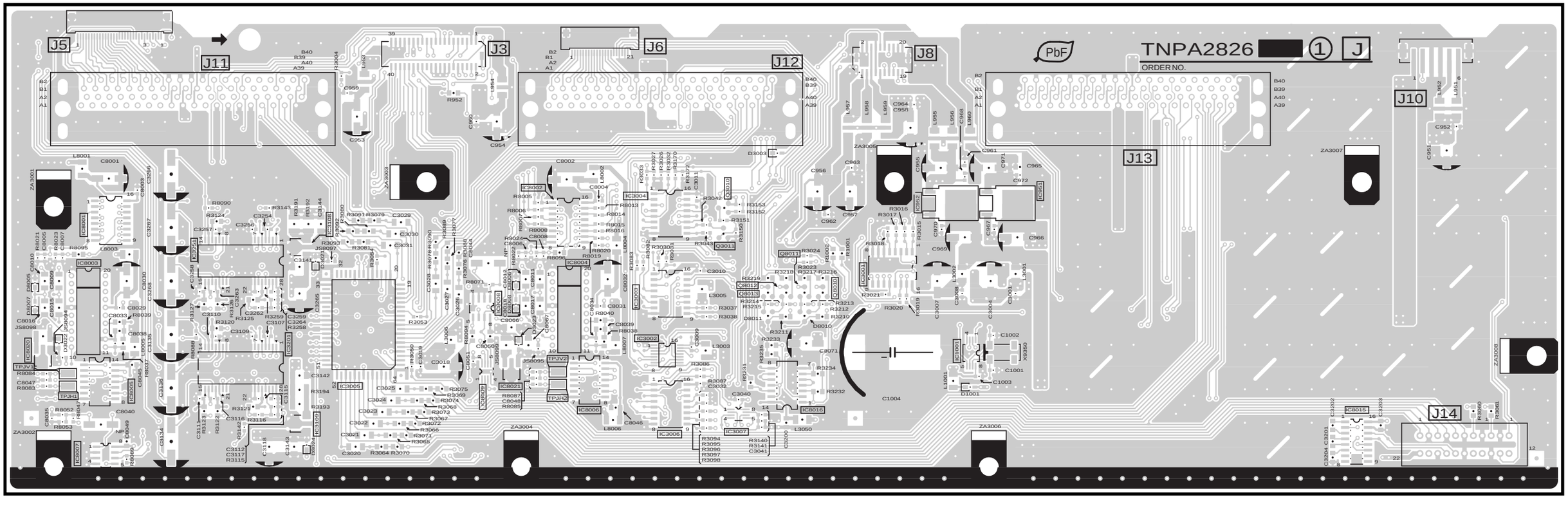
TH-42PHD6/TH-42PHW6
HY-BOARD TXNHY10QBS



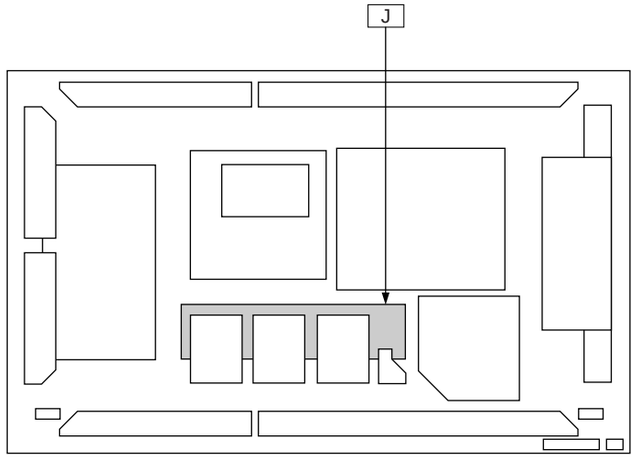
Parts Location

J-BOARD (COMPONENT SIDE)			
IC		**TRANSISTOR**	
IC1001	F-2	Q3010	E-3
IC3001	F-2	Q3011	E-3
IC3002	D-2	Q8010	E-2
IC3003	D-2	Q8011	E-2
IC3004	D-3	Q8012	E-2
IC3005	C-2	Q8013	E-2
IC3006	D-2	**TP**	
IC3007	E-1	TPJH1	A-2
IC3108	B-2	TPJH2	D-2
IC3109	B-1	TPJV1	A-2
IC3201	B-2	TPJV2	D-2
IC3251	B-2		
IC8001	A-3		
IC8002	D-3		
IC8003	A-2		
IC8004	D-2		
IC8005	A-2		
IC8006	D-2		
IC8007	A-1		
IC8008	C-2		
IC8009	C-2		
IC8015	H-1		
IC8016	E-2		
IC8020	A-2		
IC8021	D-2		
IC951	F-3		
IC952	F-3		

J-BOARD(COMPONENT SIDE)
TNPA2826



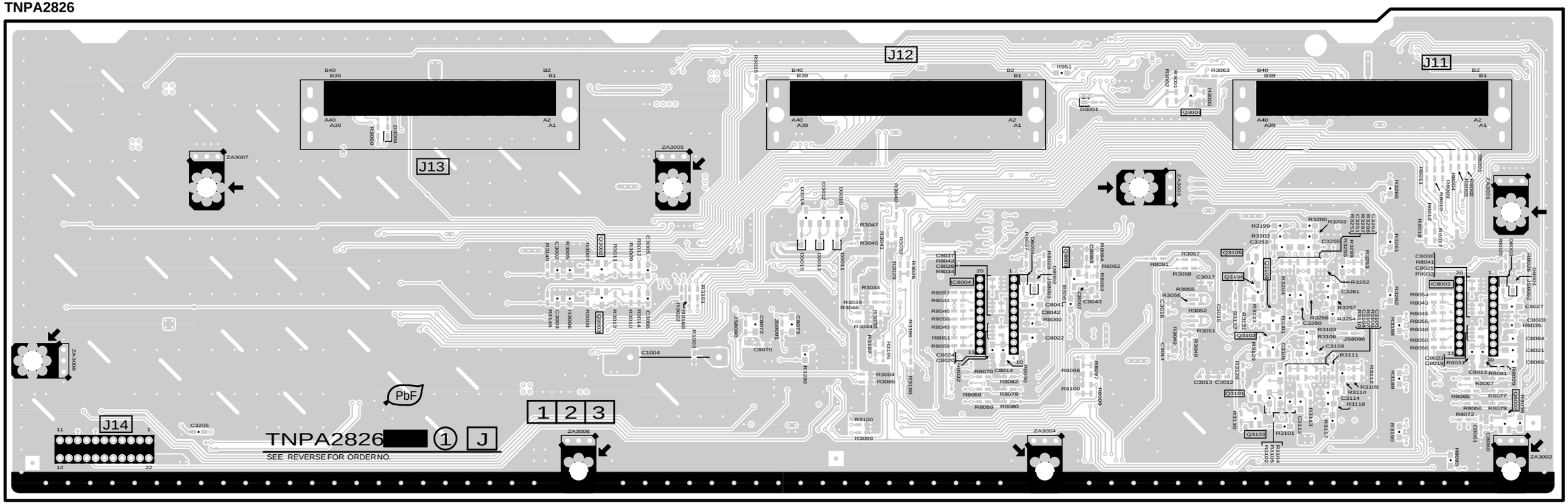
TH-42PHD6/TH-42PHW6
J-BOARD TNPA2826



Parts Location

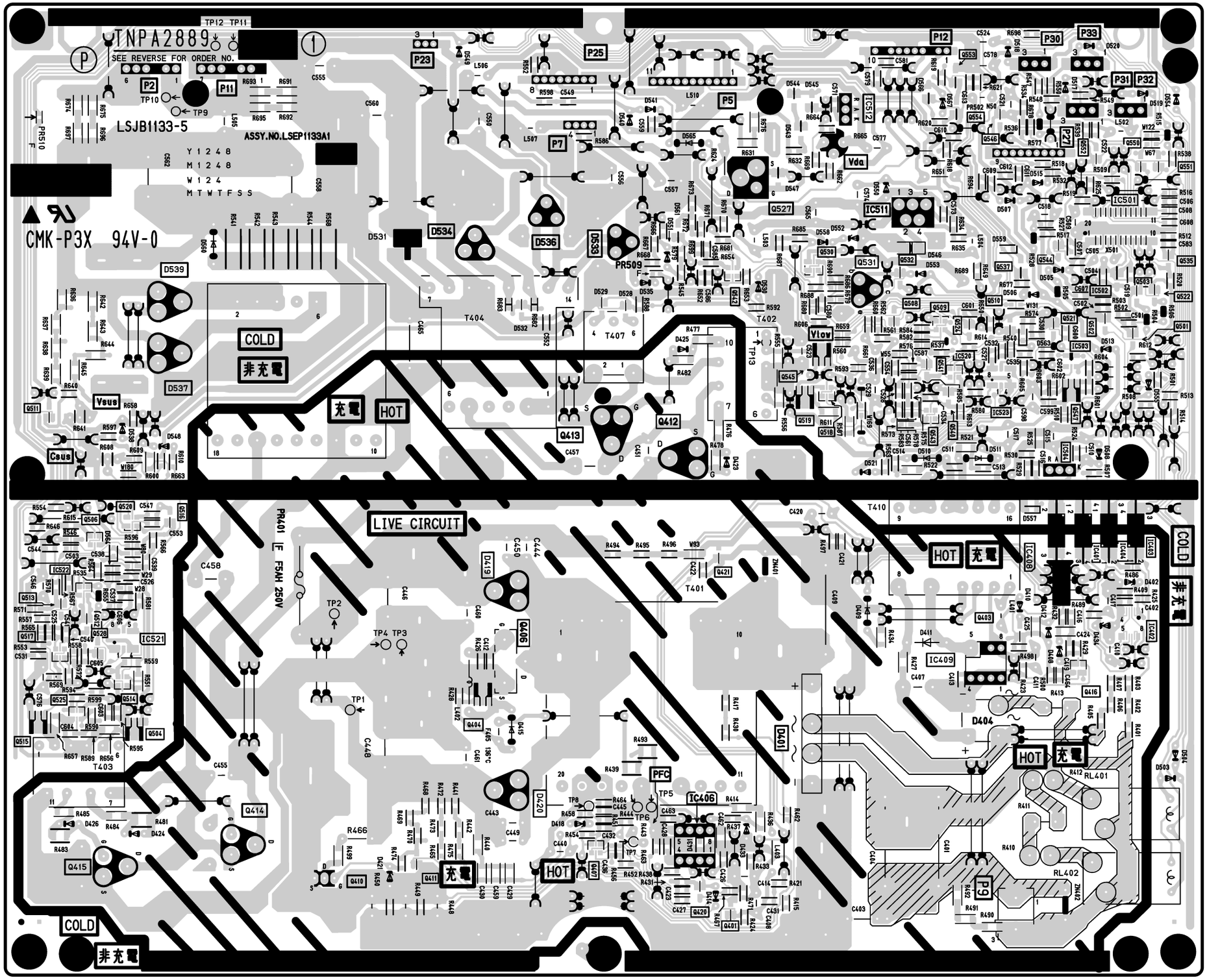
J-BOARD (FOIL SIDE)			
IC		**TRANSISTOR**	
IC8003	I-2	Q3001	G-3
IC8004	F-2	Q3002	D-2
		Q3003	D-2
		Q3101	H-2
		Q3102	H-2
		Q3103	H-1
		Q3104	H-2
		Q3105	H-2
		Q3106	H-2
		Q8001	G-2
		Q8002	I-2

J-BOARD (FOIL SIDE)
TNPA2826



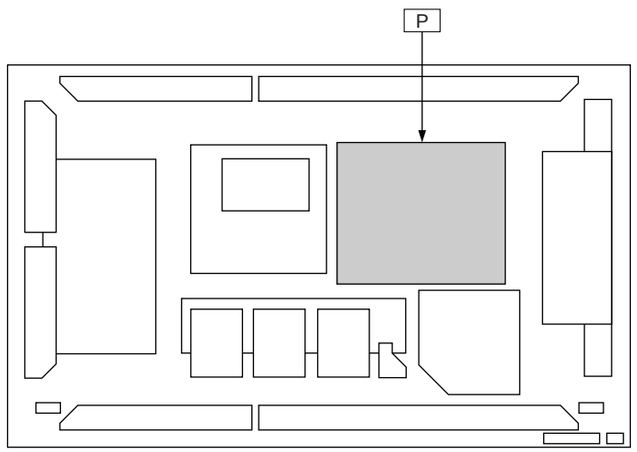
TH-42PHD6/TH-42PHW6
J-BOARD TNPA2826

P-BOARD(FOIL SIDE)
TNPA2889



TH-42PHD6/TH-42PHW6
P-BOARD TNPA2889

TH-42PHD6/TH-42PHW6
P-BOARD TNPA2889

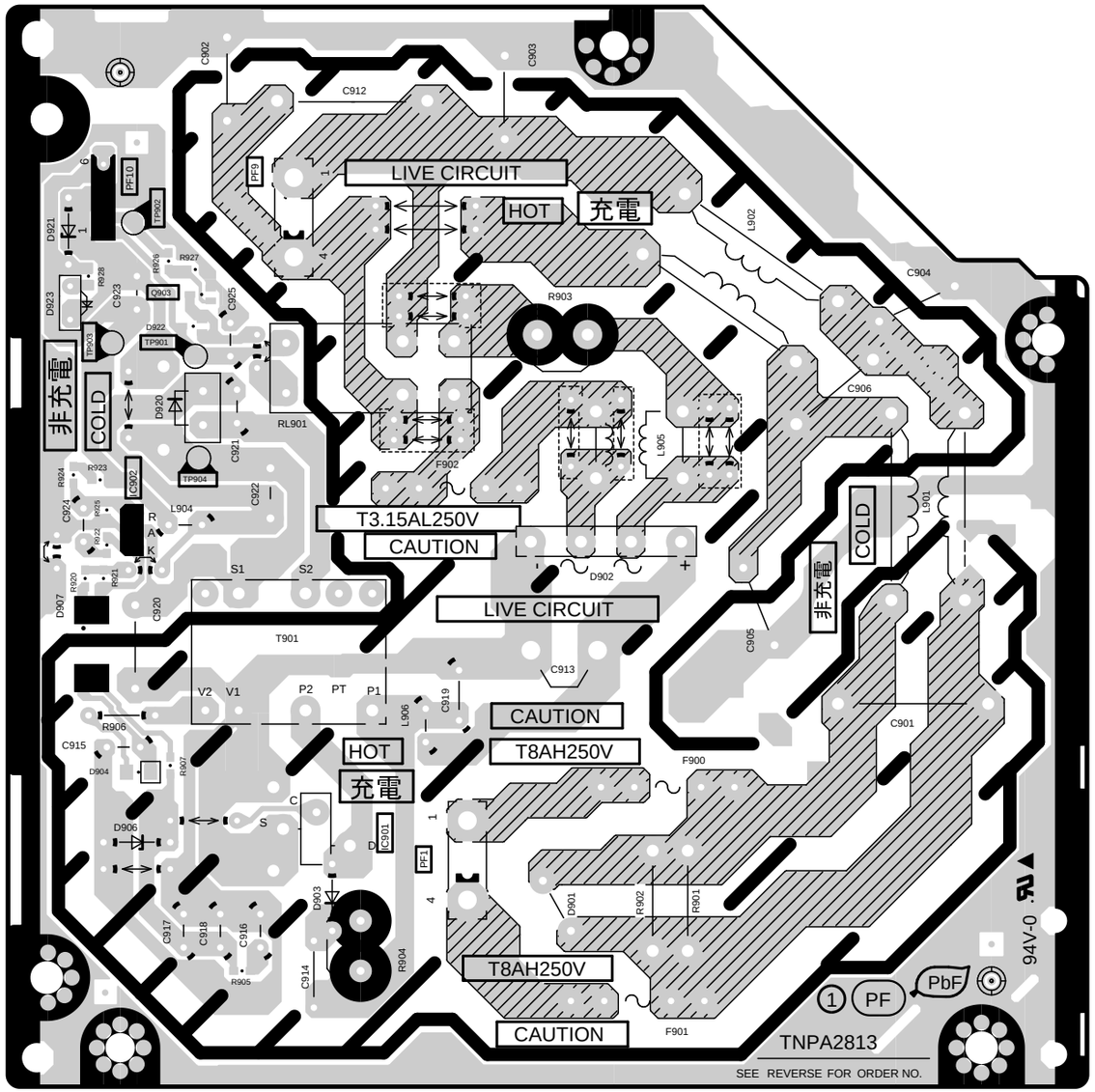


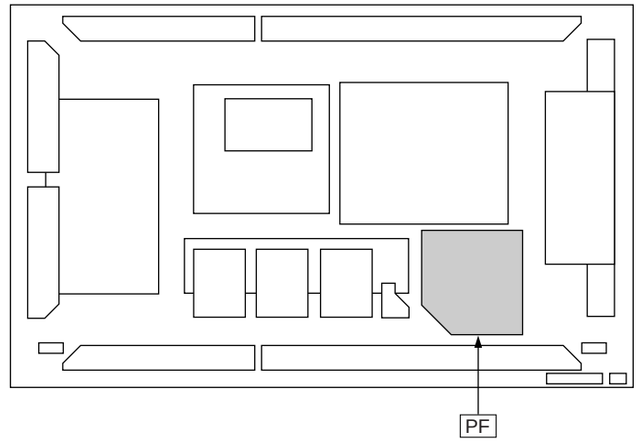
Parts Location

P-BOARD (FOIL SIDE)							
IC		**TRANSISTOR**		Q516	C-3	**TP**	
IC401	H-3	Q401	F-1	Q517	B-3	TP2	D-3
IC402	H-3	Q403	G-3	Q518	F-4	TP3	D-3
IC403	H-3	Q404	D-2	Q519	F-4	TP4	D-3
IC404	H-3	Q406	D-3	Q520	B-3	TP5	E-2
IC406	F-2	Q407	E-1	Q521	H-4	TP6	E-2
IC408	G-3	Q410	D-1	Q522	H-5	TP7	E-2
IC409	G-3	Q411	D-1	Q524	G-4	TP8	E-2
IC501	H-5	Q412	E-4	Q525	B-2	TP9	C-6
IC502	H-5	Q413	E-4	Q527	F-5	TP10	C-6
IC503	H-4	Q414	C-2	Q528	B-3	TP10	D-2
IC504	H-4	Q415	B-1	Q530	F-5	TP11	C-6
IC511	G-5	Q416	H-2	Q531	F-5	TP12	C-6
IC512	F-6	Q420	F-1	Q532	G-5	TP13	F-4
IC520	G-4	Q421	F-3	Q535	H-5		
IC521	B-3	Q501	H-4	Q537	G-5		
IC522	B-3	Q502	H-4	Q540	G-4		
IC523	G-4	Q503	H-5	Q541	G-4		
		Q504	B-2	Q542	F-5		
		Q506	B-3	Q543	G-4		
		Q508	G-5	Q544	G-5		
		Q509	G-5	Q545	F-4		
		Q510	G-5	Q546	G-5		
		Q511	B-4	Q547	H-4		
		Q512	B-3	Q550	H-5		
		Q513	B-3	Q551	H-5		
		Q514	B-2	Q552	H-5		
		Q515	B-2	Q553	G-6		
				Q554	G-6		

TH-42PHD6/TH-42PHW6
P-BOARD PARTS LOCATION

PF-BOARD
TXNPF10QBS



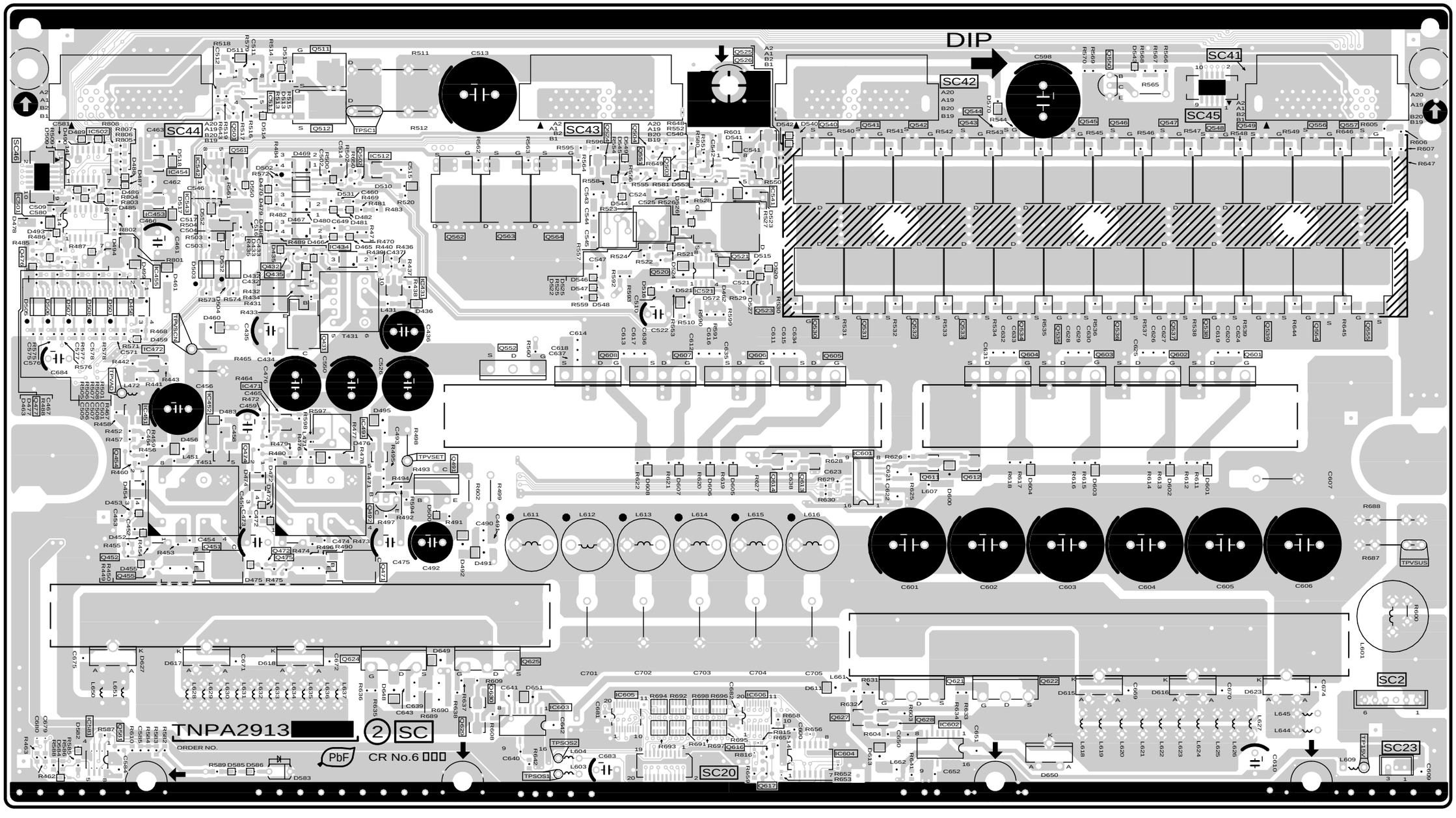


Parts Location

PF-BOARD			
IC		**TP**	
IC901	B-2	TP901	B-4
IC902	A-4	TP902	A-5
TRANSISTOR		TP903	A-4
Q903	B-4	TP904	B-4

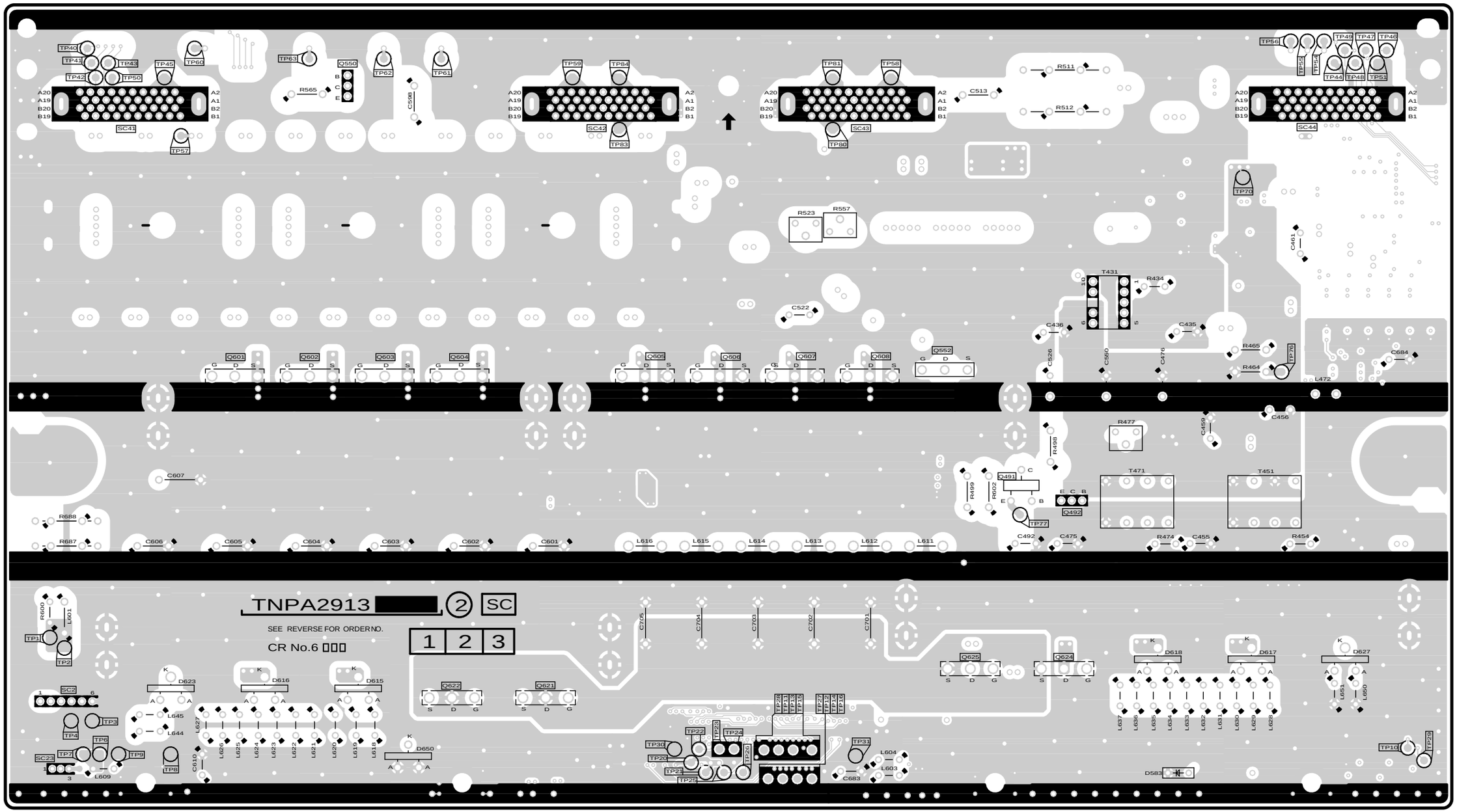
TH-42PHD6/TH-42PHW6
PF-BOARD TXNPF10QBS

SC-BOARD(COMPONENT SIDE)
TXNSC10QJS



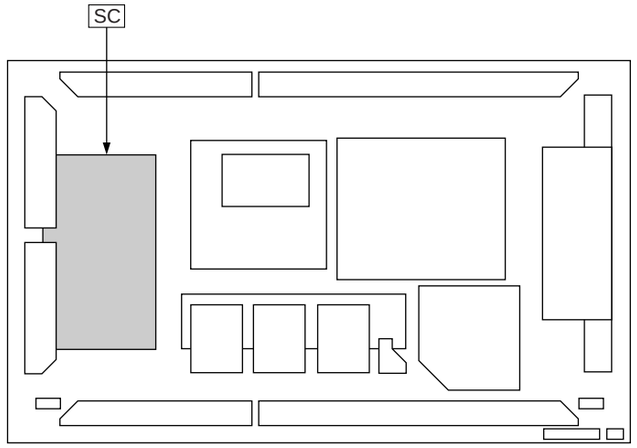
TH-42PHD6/TH-42PHW6
SC-BOARD TXNSC10QJS

SC-BOARD(FOIL SIDE)
TXNSC10QJS



TH-42PHD6/TH-42PHW6
SC-BOARD TXNSC10QJS

TH-42PHD6/TH-42PHW6
SC-BOARD TXNSC10QJS



Parts Location

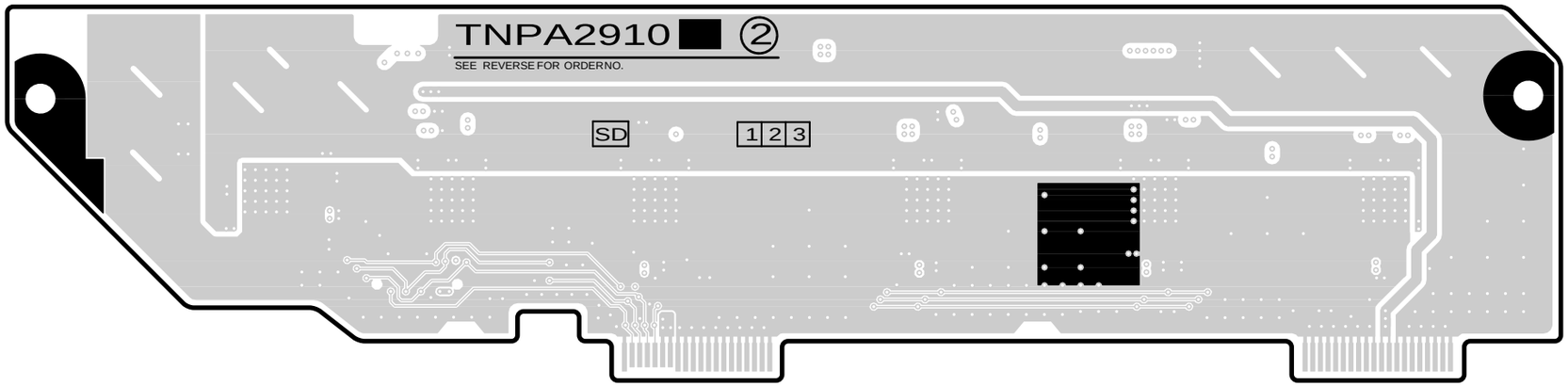
SC-BOARD (FOIL SIDE)					
TRANSISTOR		**TP**		TP41	A-5
Q491	F-3	TP1	A-2	TP42	A-5
Q492	G-3	TP2	A-2	TP43	B-5
Q550	C-5	TP3	A-2	TP44	H-5
Q552	F-4	TP4	A-2	TP45	B-5
Q601	B-4	TP6	A-2	TP46	H-5
Q602	C-4	TP7	A-2	TP47	H-5
Q603	C-4	TP8	B-1	TP48	H-5
Q604	C-4	TP9	B-2	TP49	H-5
Q605	D-4	TP10	I-2	TP50	B-5
Q606	E-4	TP11	E-2	TP51	H-5
Q607	E-4	TP12	E-2	TP54	H-5
Q608	F-4	TP13	E-2	TP55	H-5
Q621	D-2	TP14	E-2	TP56	H-5
Q622	C-2	TP16	E-2	TP57	B-5
Q624	G-2	TP20	E-1	TP58	F-5
Q625	F-2	TP20	I-2	TP59	D-5
		TP21	E-1	TP60	B-5
		TP22	E-2	TP61	C-5
		TP23	E-2	TP62	C-5
		TP24	E-2	TP63	C-5
		TP26	E-1	TP70	H-5
		TP26	E-1	TP76	H-4
		TP27	E-2	TP77	G-3
		TP28	E-2	TP80	E-5
		TP30	E-2	TP81	E-5
		TP31	F-2	TP83	D-5
		TP40	A-5	TP84	D-5

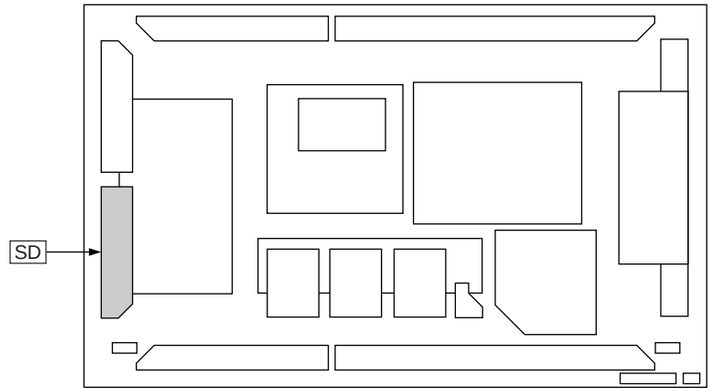
Parts Location

SC-BOARD (COMPONENT SIDE)							
IC		**TRANSISTOR**		Q543	F-5	**TP**	
IC431	C-4	Q431	C-4	Q544	F-5	TP16V	H-1
IC434	C-4	Q432	B-4	Q545	G-5	TPSC1	C-5
IC451	B-3	Q435	B-4	Q546	G-5	TPSOS1	D-1
IC452	B-3	Q451	B-3	Q547	G-5	TPSOS2	D-2
IC453	B-5	Q452	A-3	Q548	H-5	TPVAD	A-4
IC454	B-5	Q454	A-3	Q549	H-5	TPVSCN	B-4
IC455	B-4	Q455	B-3	Q551	D-5	TPVSET	C-3
IC471	B-4	Q471	C-3	Q552	D-4	TPVSUS	I-3
IC472	B-4	Q472	B-3	Q554	H-4		
IC491	C-3	Q474	B-3	Q555	H-4		
IC501	A-5	Q475	B-3	Q556	H-5		
IC502	A-5	Q476	A-4	Q557	H-5		
IC511	B-5	Q477	A-3	Q560	G-5		
IC512	C-5	Q491	C-3	Q561	B-5		
IC521	E-4	Q492	C-3	Q562	C-4		
IC541	E-5	Q501	B-5	Q563	D-4		
IC542	B-5	Q502	C-5	Q564	D-4		
IC543	B-5	Q503	E-5	Q581	A-2		
IC581	A-2	Q504	D-5	Q601	H-4		
IC601	F-3	Q511	C-5	Q602	G-4		
IC602	F-2	Q512	C-5	Q603	G-4		
IC603	D-2	Q520	D-4	Q604	G-4		
IC604	E-2	Q521	E-4	Q605	E-4		
IC605	D-2	Q523	E-4	Q606	E-4		
IC606	E-2	Q524	D-5	Q607	E-4		
		Q525	E-5	Q608	D-4		
		Q526	E-5	Q611	F-3		
		Q530	E-4	Q612	F-3		
		Q531	F-4	Q613	E-3		
		Q532	F-4	Q614	E-3		
		Q533	F-4	Q616	E-2		
		Q534	F-4	Q617	E-1		
		Q535	G-4	Q621	F-2		
		Q536	G-4	Q622	G-2		
		Q537	G-4	Q624	C-2		
		Q538	H-4	Q625	D-2		
		Q539	H-4	Q627	F-2		
		Q540	E-5	Q628	F-2		
		Q541	F-5	Q629	C-2		
		Q542	F-5	Q630	D-2		

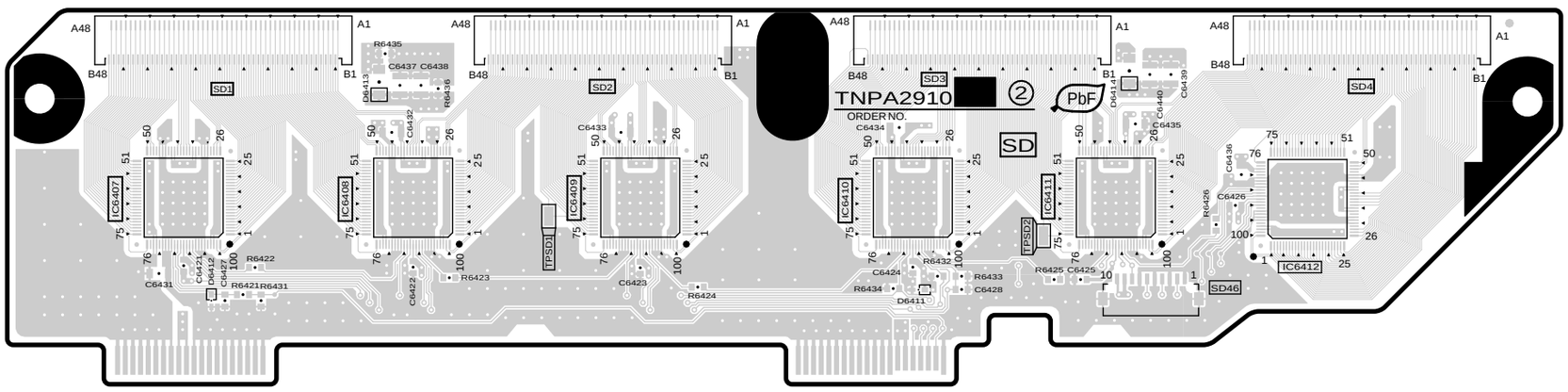
TH-42PHD6/TH-42PHW6
SC-BOARD PARTS LOCATION

SD-BOARD(FOIL SIDE)
TNPA2910



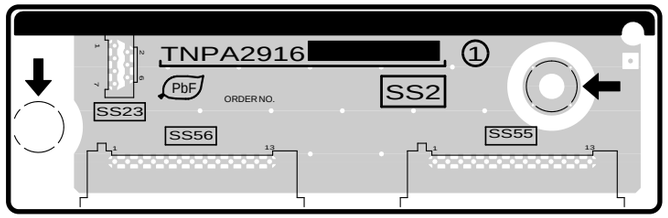


SD-BOARD(COMPONENT SIDE)
TNPA2910

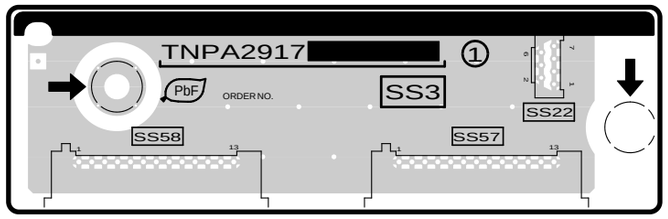


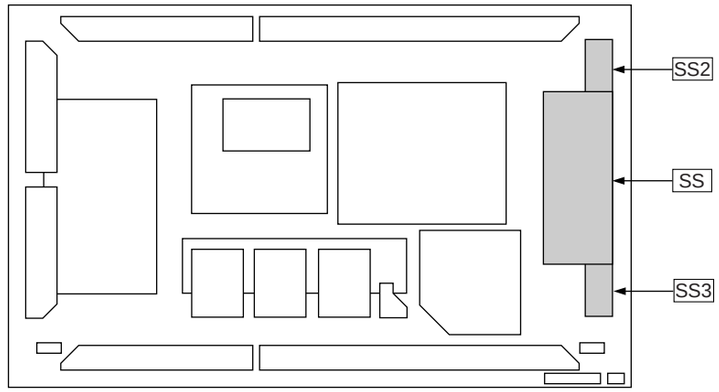
TH-42PHD6/TH-42PHW6
SD-BOARD TNPA2910

SS2-BOARD(COMPONENT SIDE)
TNPA2916



SS3-BOARD(COMPONENT SIDE)
TNPA2917

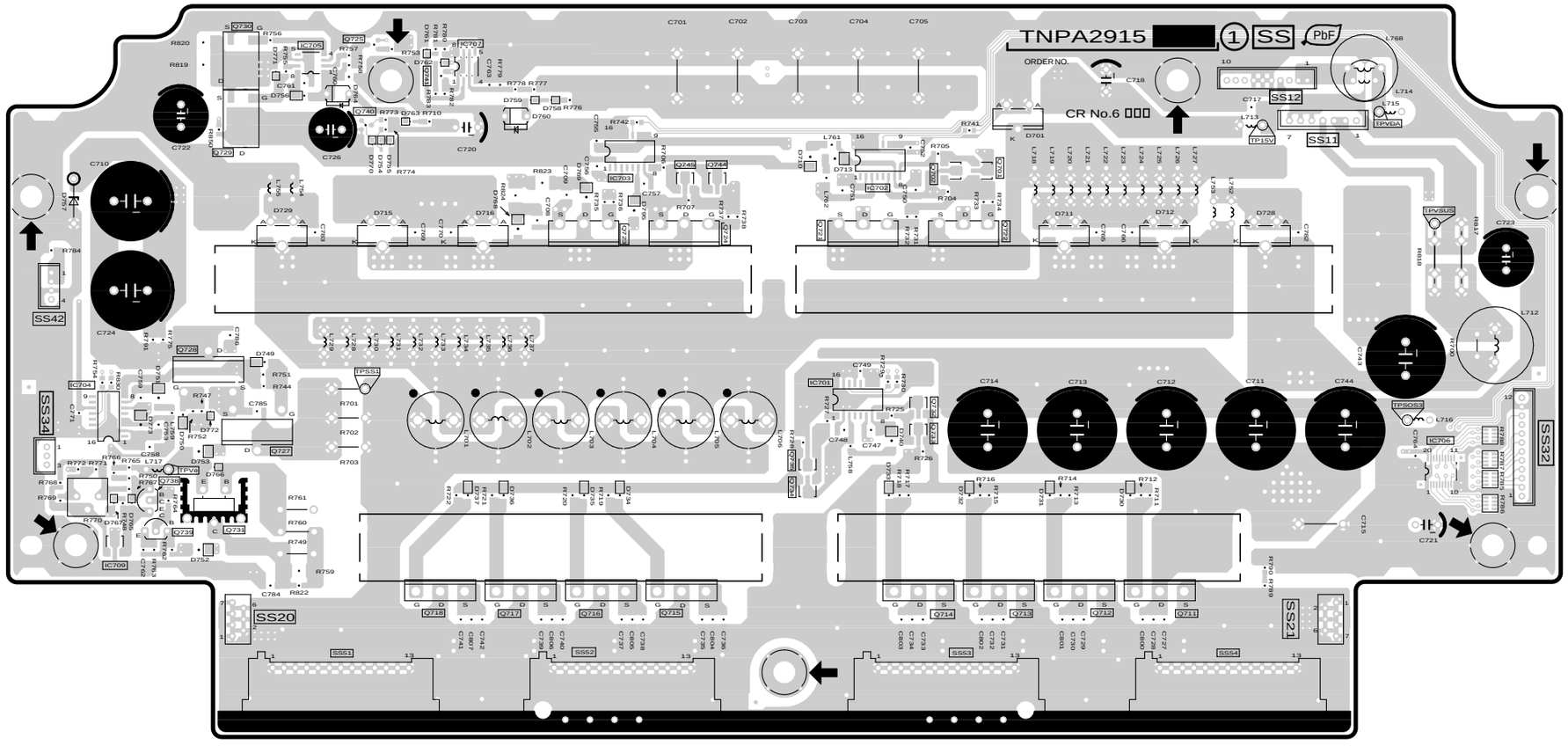




Parts Location

SS-BOARD (COMPONENT SIDE)					
IC		Q721	D-3	**TP**	
IC701	D-2	Q722	E-3	TP15V	F-4
IC702	D-3	Q723	C-3	TPSOS3	G-2
IC703	C-3	Q724	D-3	TPSS1	B-2
IC704	A-2	Q725	B-4	TPVDA	F-4
IC705	B-4	Q727	B-2	TPVe	A-2
IC706	G-2	Q728	B-3	TPVSUS	G-3
IC707	C-4	Q729	B-4		
IC709	A-2	Q730	B-4		
TRANSISTOR		Q731	B-2		
Q701	E-3	Q732	E-2		
Q702	E-3	Q733	E-2		
Q711	F-2	Q734	D-2		
Q712	E-2	Q735	D-2		
Q713	E-2	Q738	A-2		
Q714	E-2	Q739	A-2		
Q715	D-2	Q740	B-4		
Q716	C-2	Q741	C-4		
Q717	C-2	Q744	D-3		
Q718	C-2	Q745	D-3		

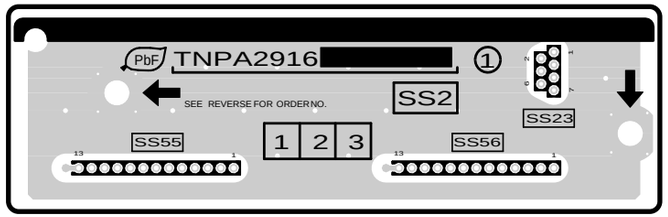
SS-BOARD(COMPONENT SIDE)
TXNSS10QJS



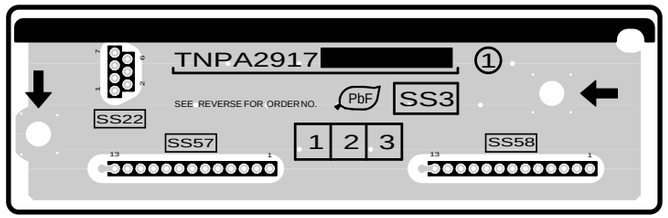
TH-42PHD6/TH-42PHW6
SS-BOARD TXNSS10QJS
SS2-BOARD TNPA2916
SS3-BOARD TNPA2917

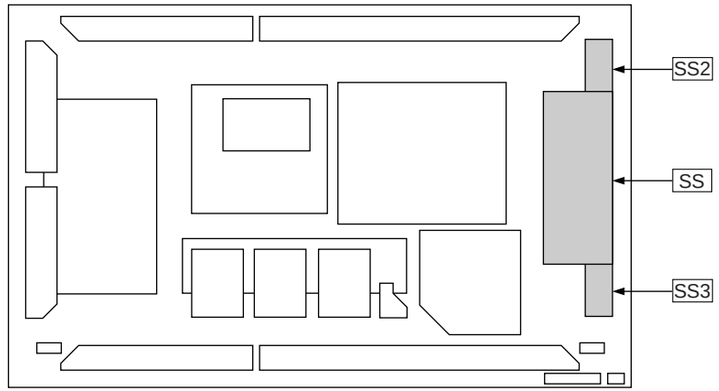
TH-42PHD6/TH-42PHW6
SS-BOARD TXNSS10QJS
SS2-BOARD TNPA2916
SS3-BOARD TNPA2917

SS2-BOARD(FOIL SIDE)
TNPA2916



SS3-BOARD(FOIL SIDE)
TNPA2917

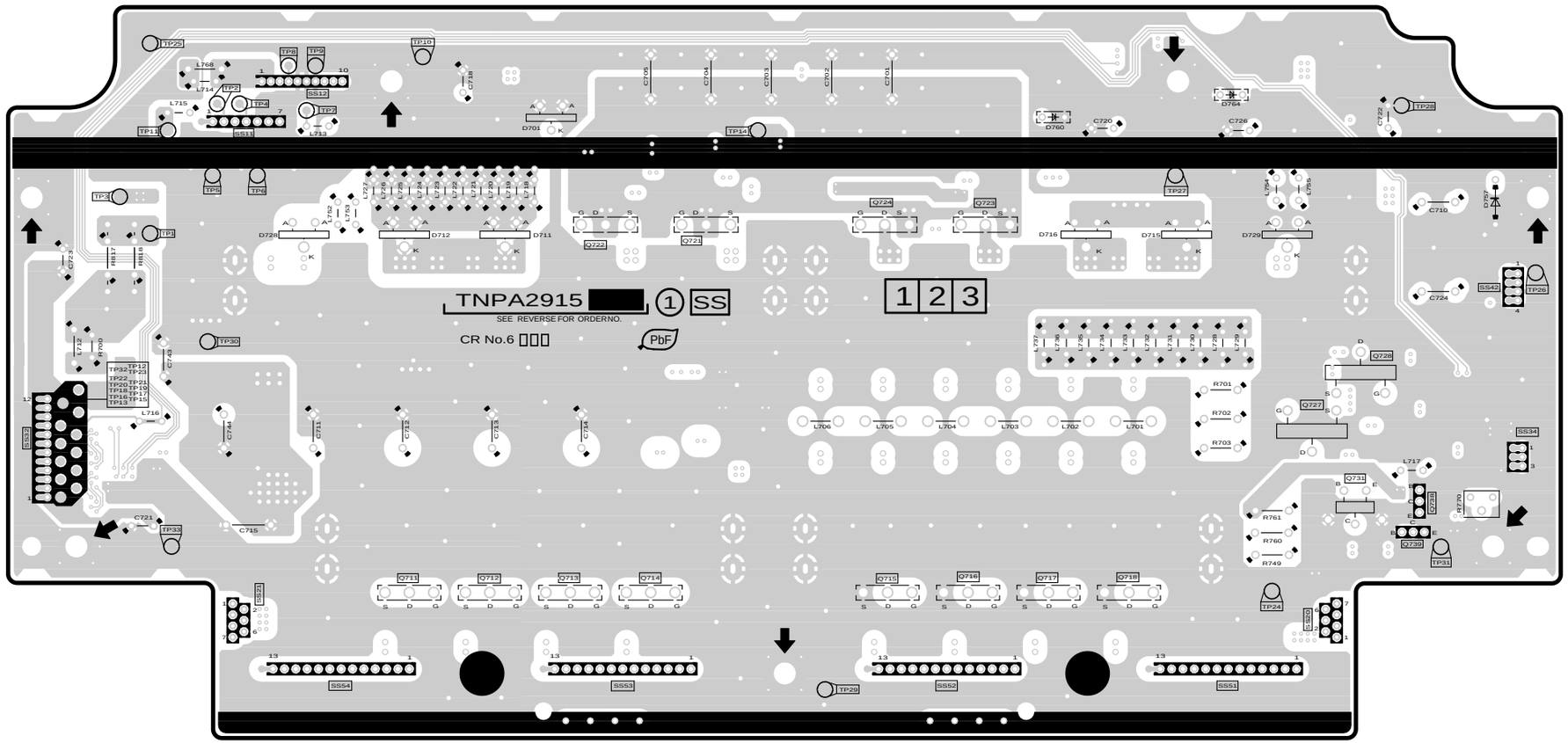




Parts Location

SS-BOARD (FOIL SIDE)					
TRANSISTOR		**TP**		TP18	A-2
Q711	B-2	TP2	B-4	TP19	A-2
Q712	C-2	TP3	A-3	TP20	A-3
Q713	C-2	TP4	B-4	TP21	A-3
Q714	C-2	TP5	B-3	TP22	A-3
Q715	D-2	TP6	B-3	TP23	A-3
Q716	E-2	TP7	B-4	TP24	F-2
Q717	E-2	TP8	B-4	TP25	A-4
Q718	E-2	TP9	B-4	TP26	G-3
Q721	D-3	TP10	C-4	TP27	F-3
Q722	C-3	TP11	A-4	TP28	G-4
Q723	E-3	TP11	A-3	TP29	D-1
Q724	D-3	TP12	A-3	TP30	B-3
Q727	F-2	TP13	A-2	TP31	G-2
Q728	F-3	TP14	D-4	TP32	A-3
Q731	F-2	TP15	A-2	TP33	A-2
Q738	G-2	TP16	A-2		
Q739	G-2	TP17	A-2		

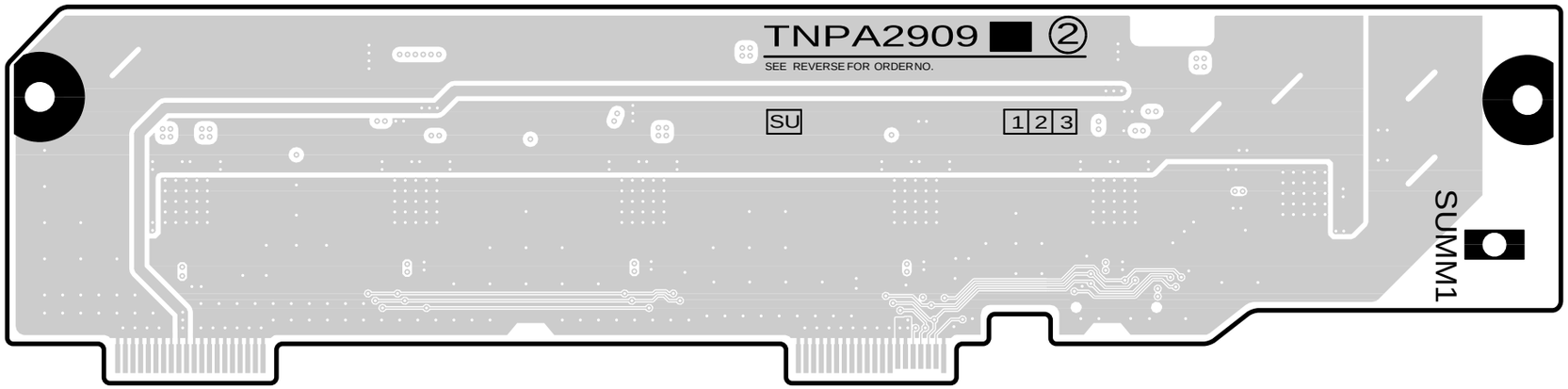
SS-BOARD(FOIL SIDE)
TXNSS10QJS

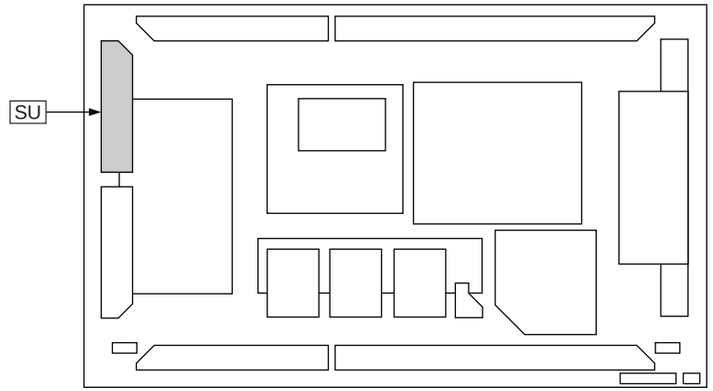


TH-42PHD6/TH-42PHW6
SS-BOARD TXNSS10QJS
SS2-BOARD TNPA2916
SS3-BOARD TNPA2917

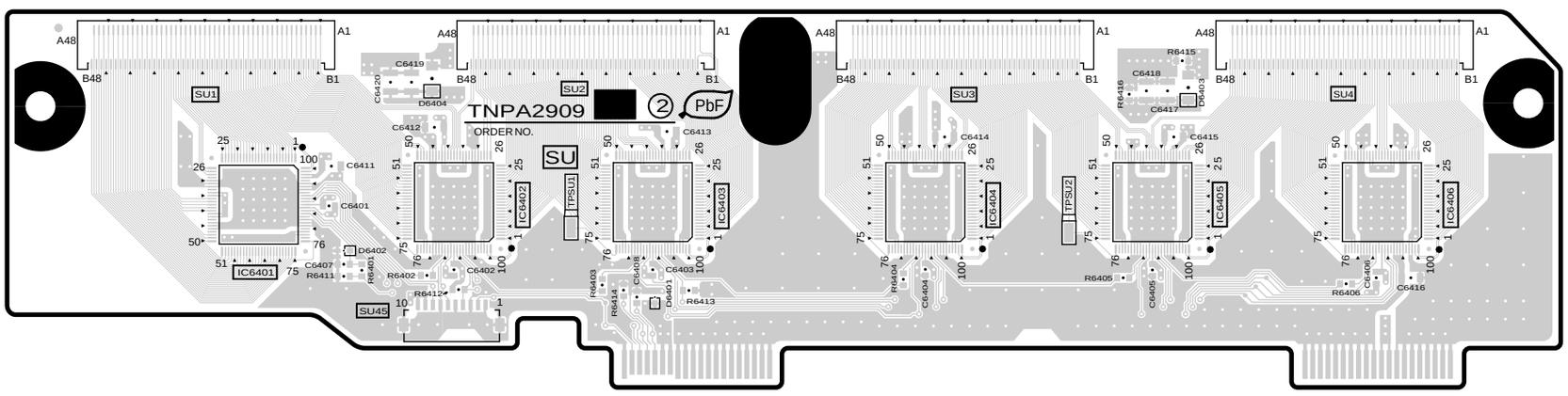
TH-42PHD6/TH-42PHW6
SS-BOARD TXNSS10QJS
SS2-BOARD TNPA2916
SS3-BOARD TNPA2917

SU-BOARD(FOIL SIDE)
TNPA2909



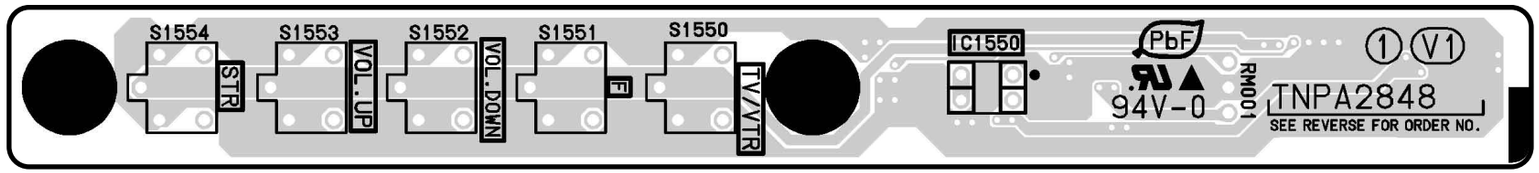


SU-BOARD(COMPONENT SIDE)
TNPA2909

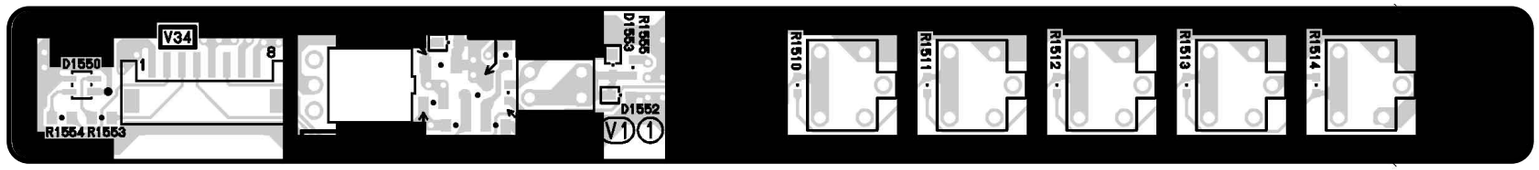


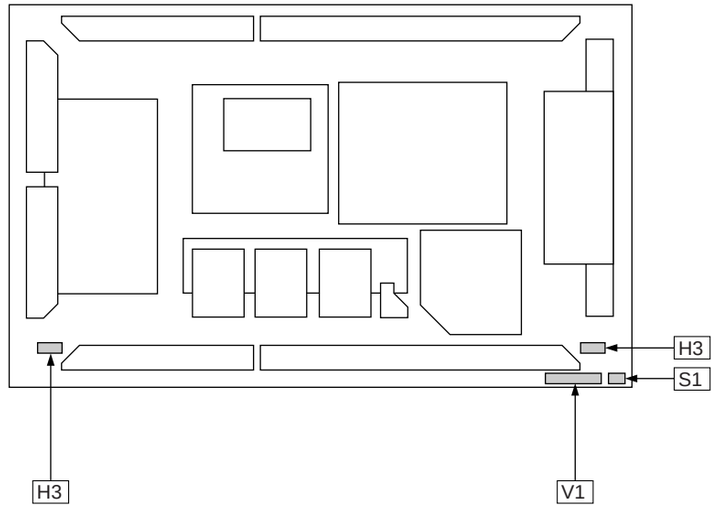
TH-42PHD6/TH-42PHW6
SU-BOARD TNPA2909

V1-BOARD(FOIL SIDE)
TXNV110QJS

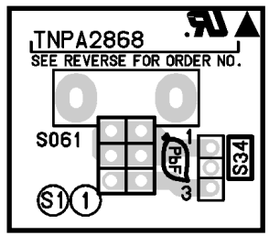


V1-BOARD(COMPONENT SIDE)
TXNV110QJS

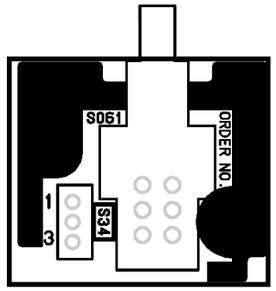




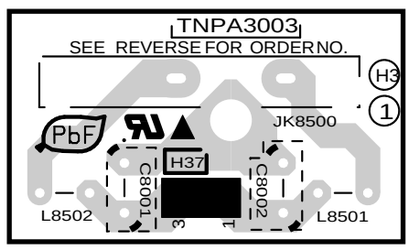
S1-BOARD(FOIL SIDE)
TNPA2868AB



S1-BOARD(COMPONENT SIDE)
TNPA2868AB

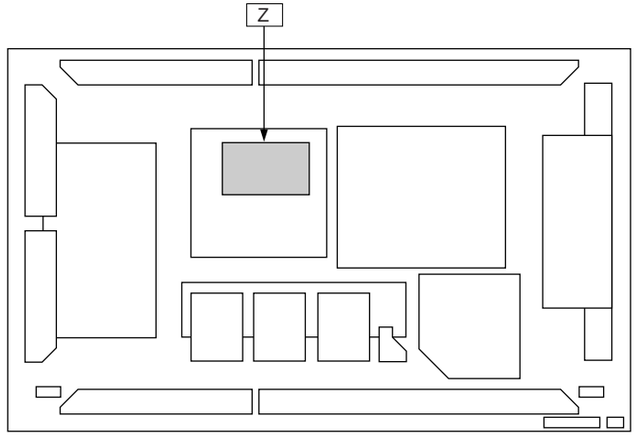


H3-BOARD
TNPA3003



TH-42PHD6UY
V1-BOARD TXNV110QJS
S1-BOARD TNPA2868AB
H3-BOARD TNPA3003

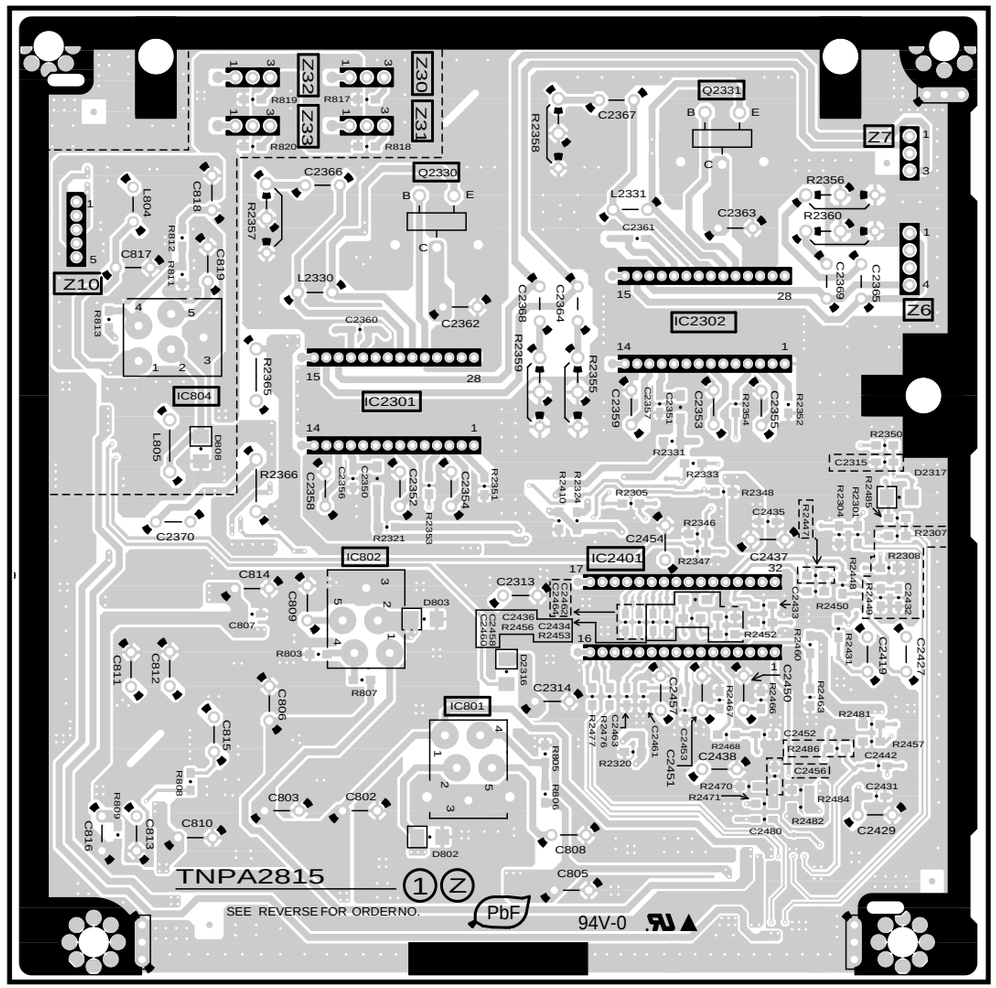
TH-42PHD6UY
V1-BOARD TXNV110QJS
S1-BOARD TNPA2868AB
H3-BOARD TNPA3003



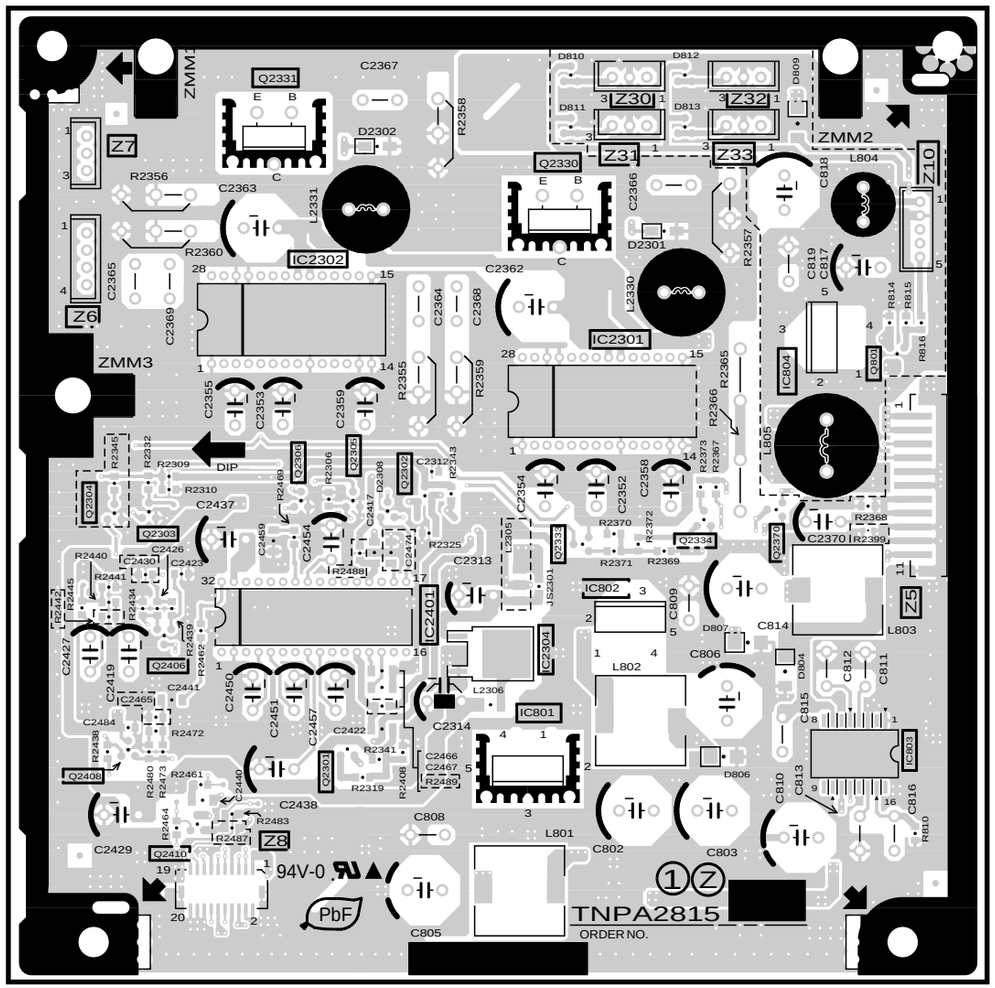
Parts Location

Z-BOARD			
IC		**TRANSISTOR**	
IC2301	B-3	Q2301	F-2
IC2301	G-3	Q2302	F-3
IC2302	C-3	Q2303	F-3
IC2302	F-4	Q2304	E-3
IC2304	G-2	Q2305	F-3
IC2401	C-2	Q2306	F-3
IC2401	F-2	Q2330	B-4
IC801	B-2	Q2330	G-4
IC801	G-2	Q2331	C-4
IC802	B-2	Q2331	F-4
IC802	G-2	Q2333	G-3
IC803	H-2	Q2334	G-3
IC804	A-3	Q2370	H-3
IC804	H-3	Q2406	F-2
		Q2408	E-2
		Q2410	F-2
		Q801	H-3

Z-BOARD(FOIL SIDE)
TNPA2815

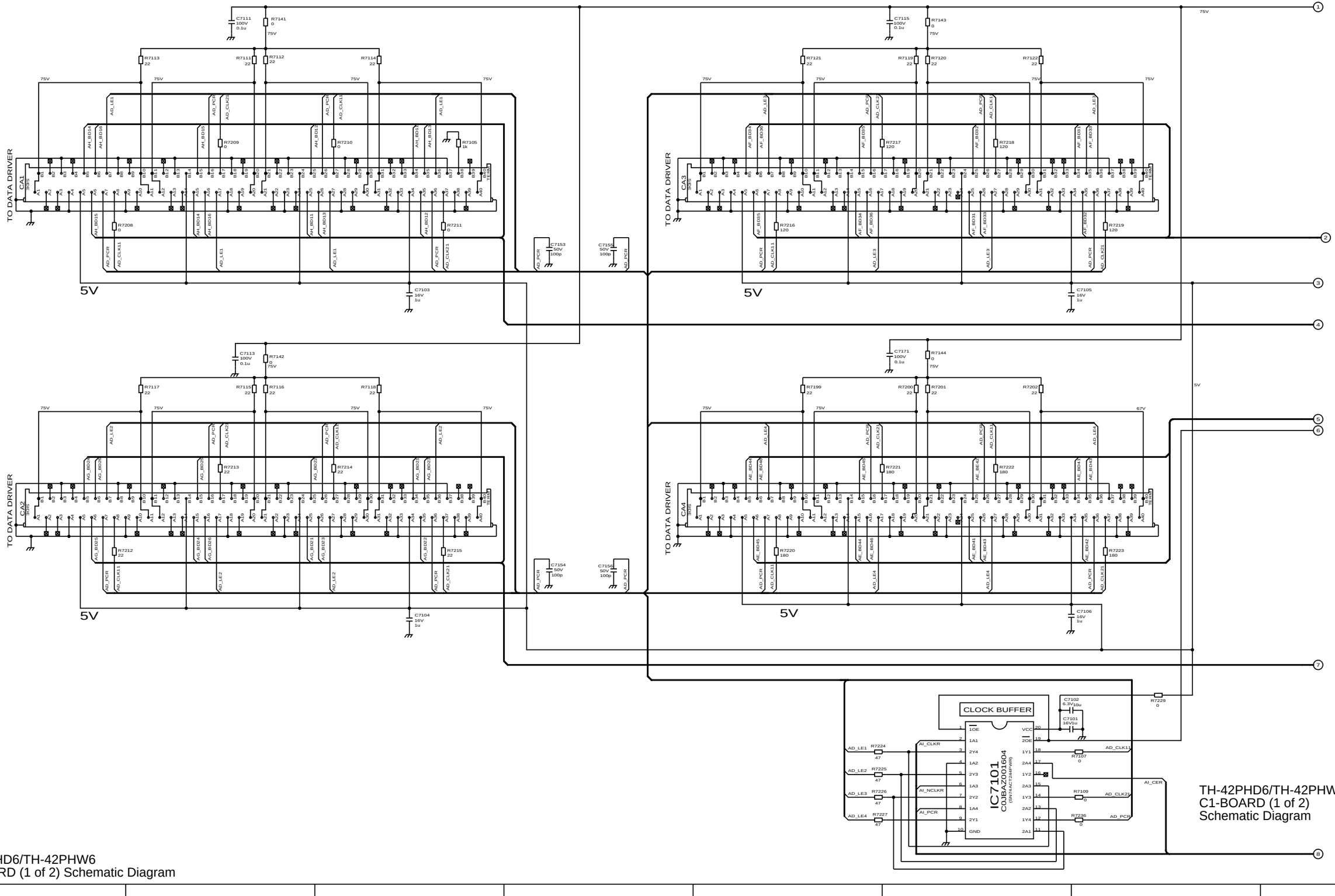


Z-BOARD(COMPONENT SIDE)
TNPA2815



TH-42PHD6UY
Z-BOARD TNPA2815

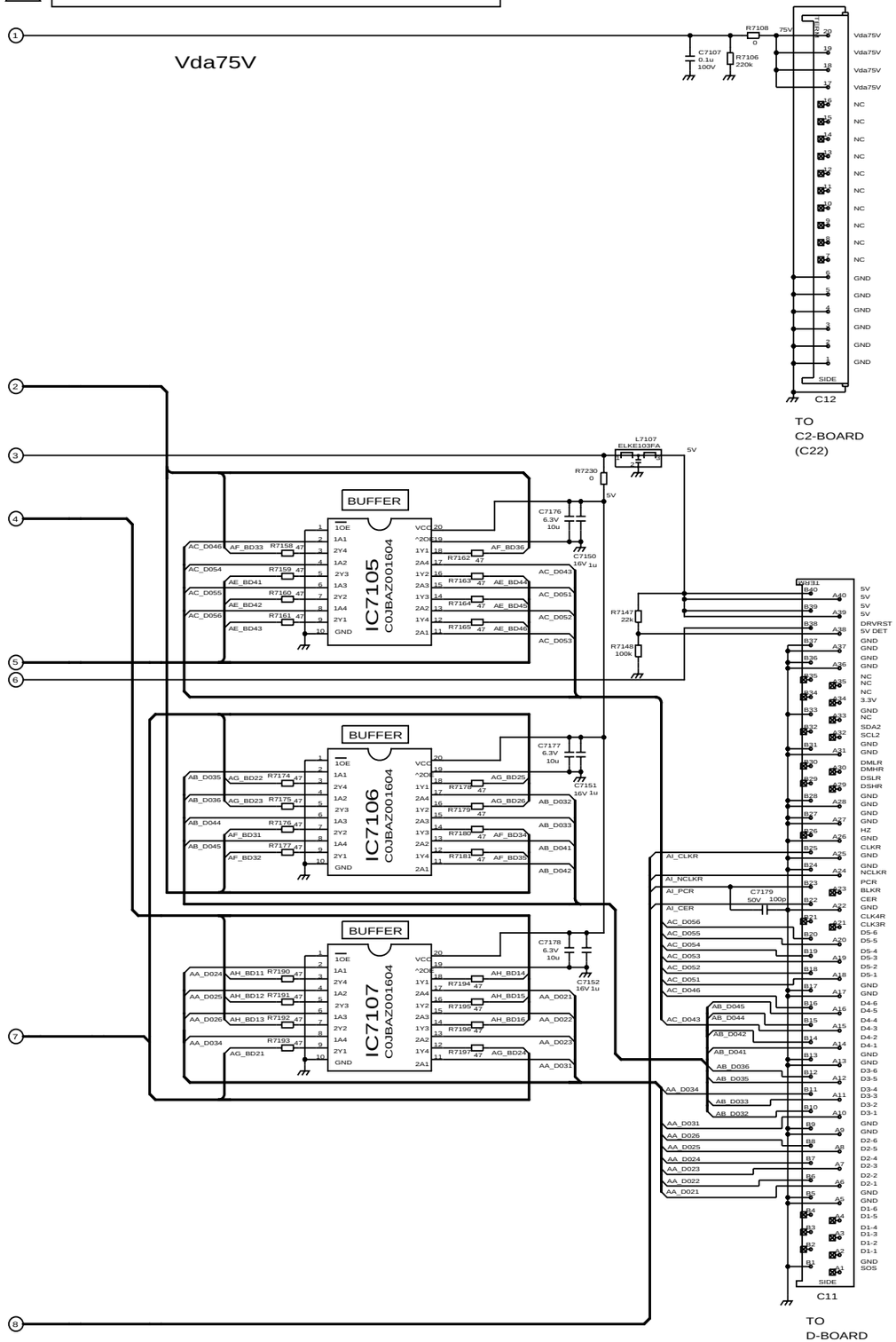
C1-BOARD TNPA2899 (1/2)



TH-42PHD6/TH-42PHW6
C1-BOARD (1 of 2)
Schematic Diagram

TH-42PHD6/TH-42PHW6
C1-BOARD (1 of 2) Schematic Diagram

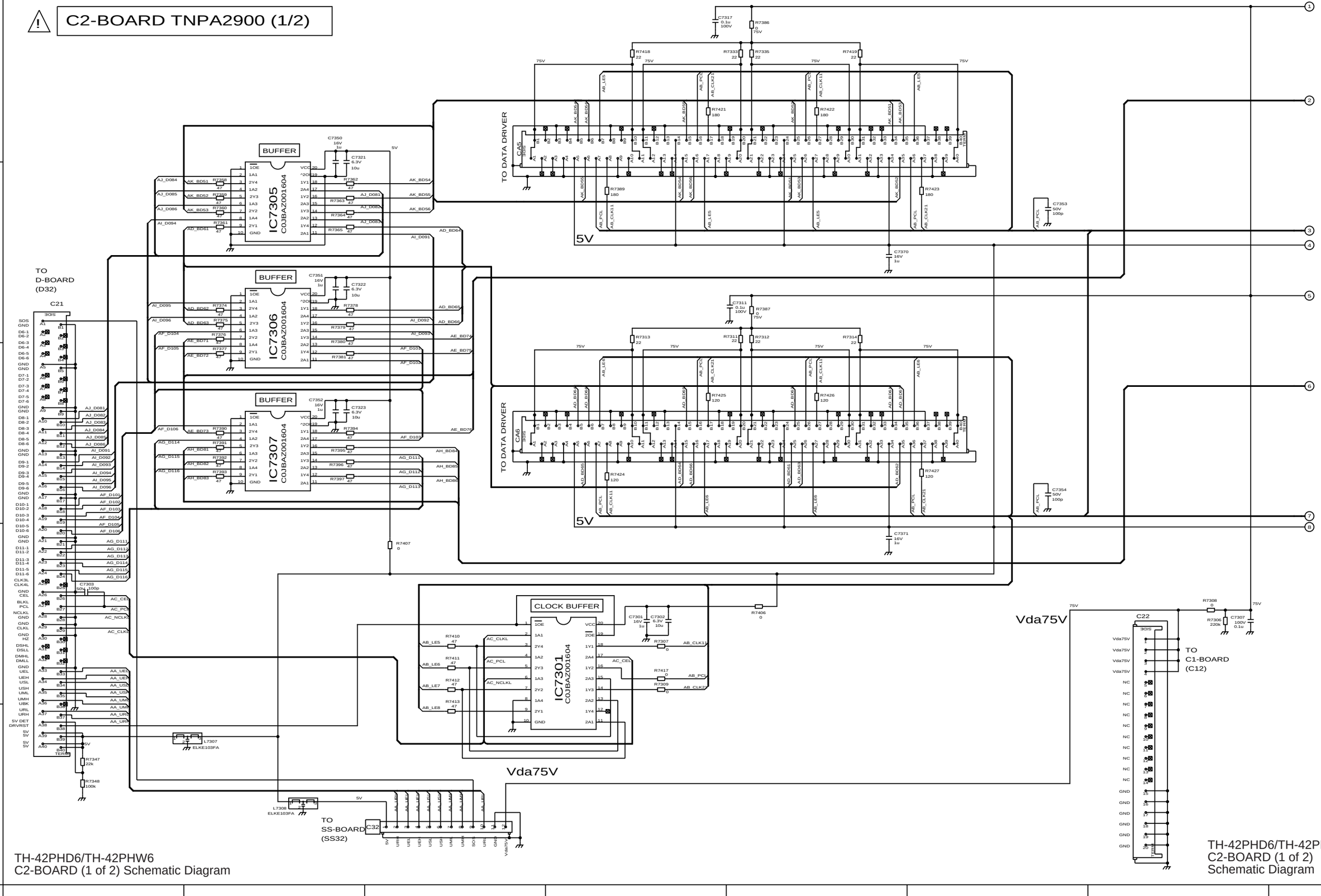
C1-BOARD TNPA2899 (2/2)



TH-42PHD6/TH-42PHW6 C1-BOARD (2 of 2) Schematic Diagram

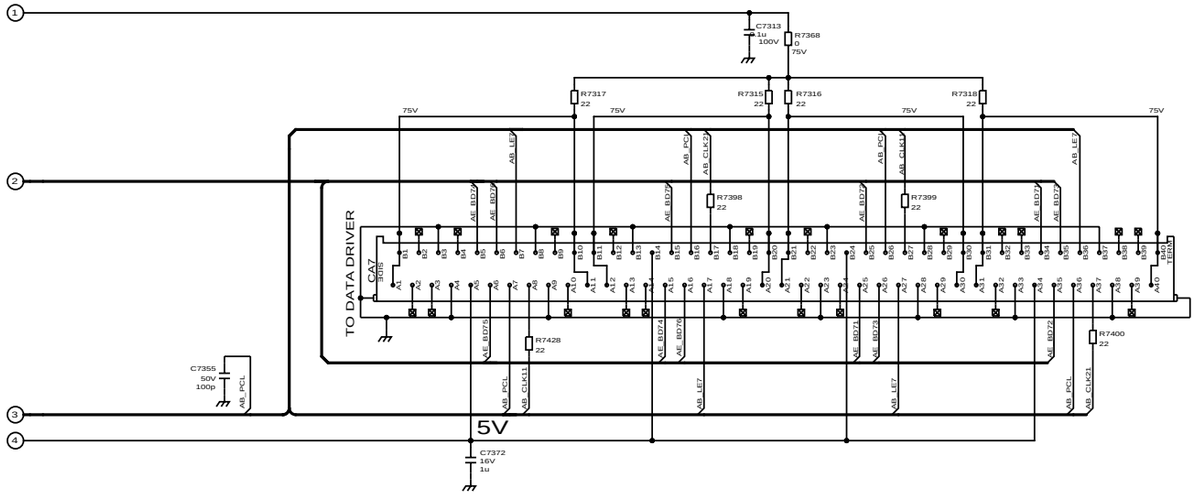
TH-42PHD6/TH-42PHW6
C1-BOARD (2 of 2) Schematic Diagram

C2-BOARD TNPA2900 (1/2)



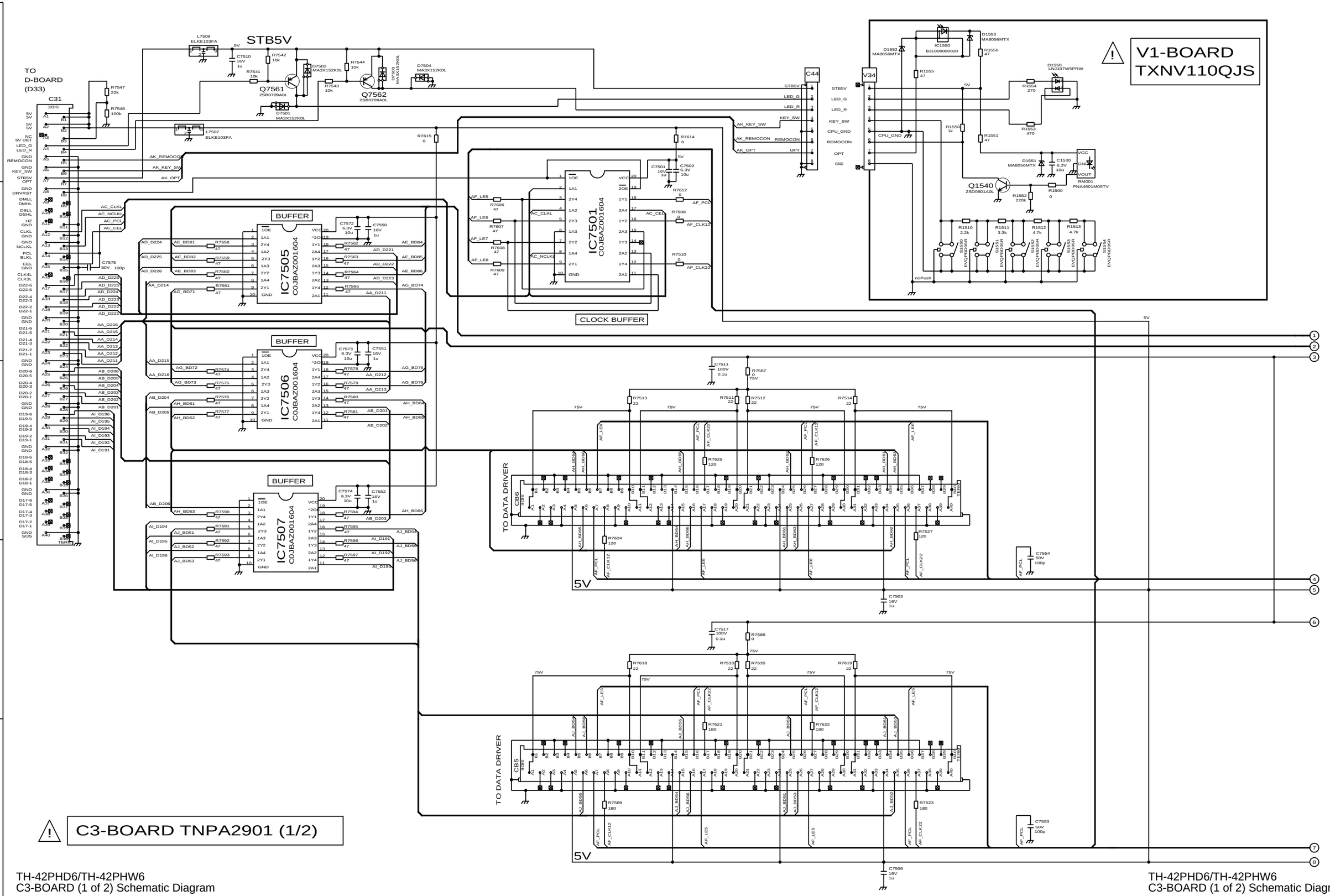
TH-42PHD6/TH-42PHW6
C2-BOARD (1 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
C2-BOARD (1 of 2)
Schematic Diagram

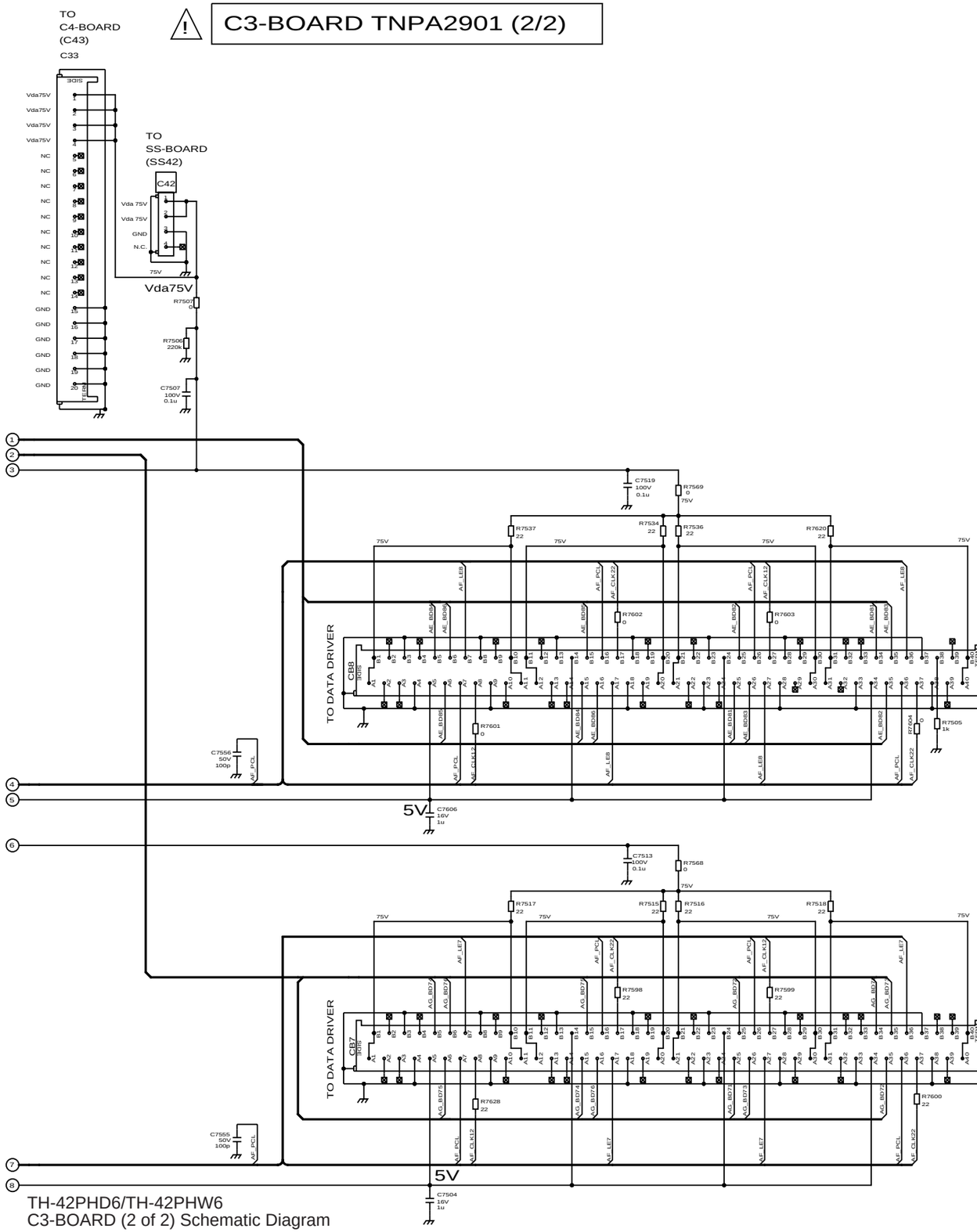


C2-BOARD TNPA2900 (2/2)

TH-42PHD6/TH-42PHW6
C2-BOARD (2 of 2) Schematic Diagram


TO D-BOARD (D33)
STB5V
V1-BOARD TXNV110QJS
C3-BOARD TNPA2901 (1/2)
CLOCK BUFFER
BUFFER
IC7505 C0JBAZ001604
IC7506 C0JBAZ001604
IC7507 C0JBAZ001604
IC7501 C0JBAZ001604
TO DATA DRIVER
5V
75V
AK_REMOCON
AK_KEY_SW
AK_OPT
AC_CLKL
AC_NCLKL
AC_PCL
AC_CEL
AF_LE5
AF_LE6
AF_LE7
AF_LE8
AF_PCL
AF_CLK12
AF_CLK22
noPush
TH-42PHD6/TH-42PHW6
C3-BOARD (1 of 2) Schematic Diagram

C3-BOARD TNPA2901 (2/2)



TH-42PHD6/TH-42PHW6
C3-BOARD (2 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
C3-BOARD (2 of 2) Schematic Diagram

C4-BOARD TNPA2902 (1/2)

TO
C3-BOARD
(C33)

C43

CLOCK BUFFER
IC7701
C0JBAZ001604

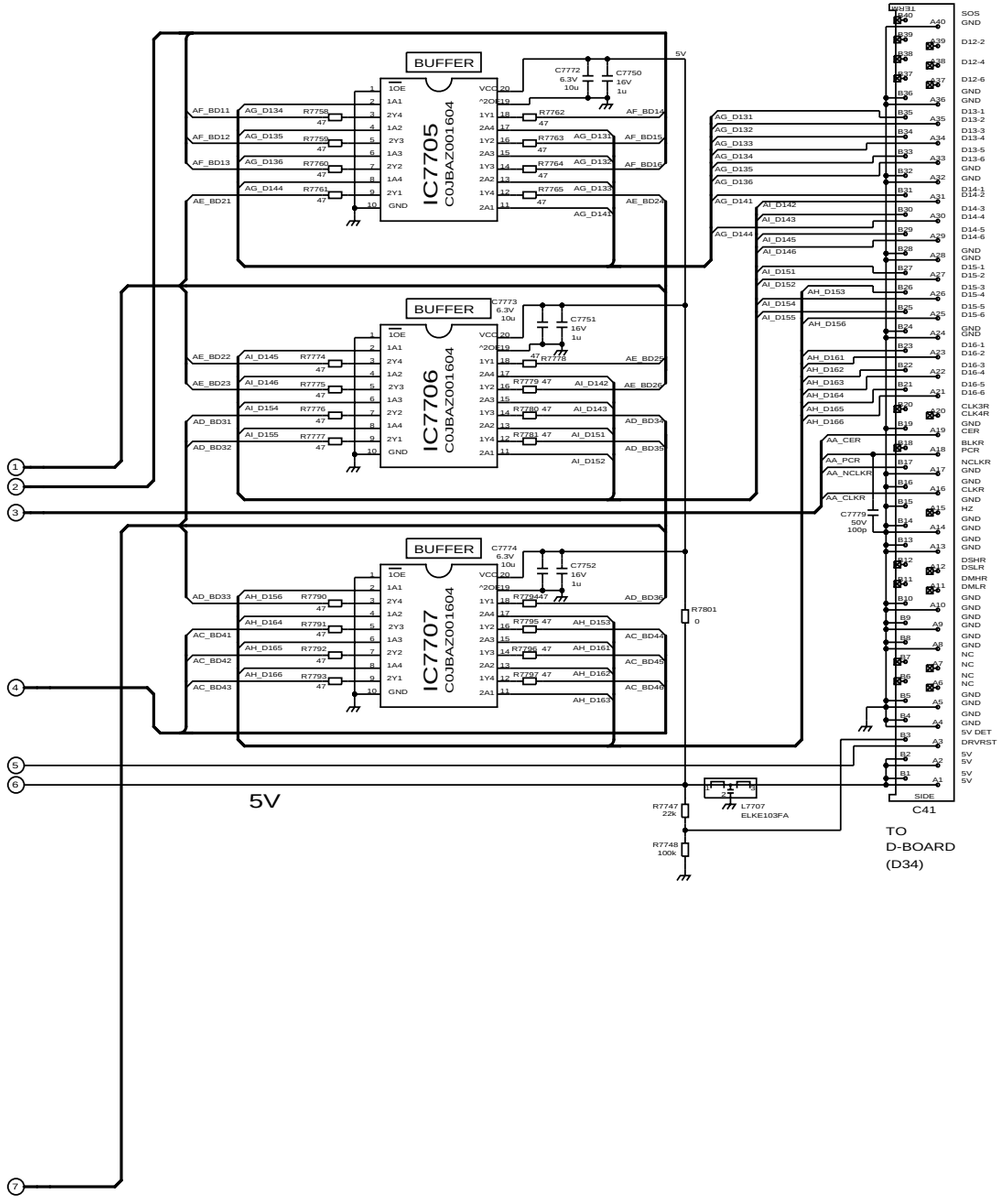
TO DATA DRIVER

CB2
CB4
CB1
CB3

5V

TH-42PHD6/TH-42PHW6
C4-BOARD (1 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
C4-BOARD (1 of 2) Schematic Diagram



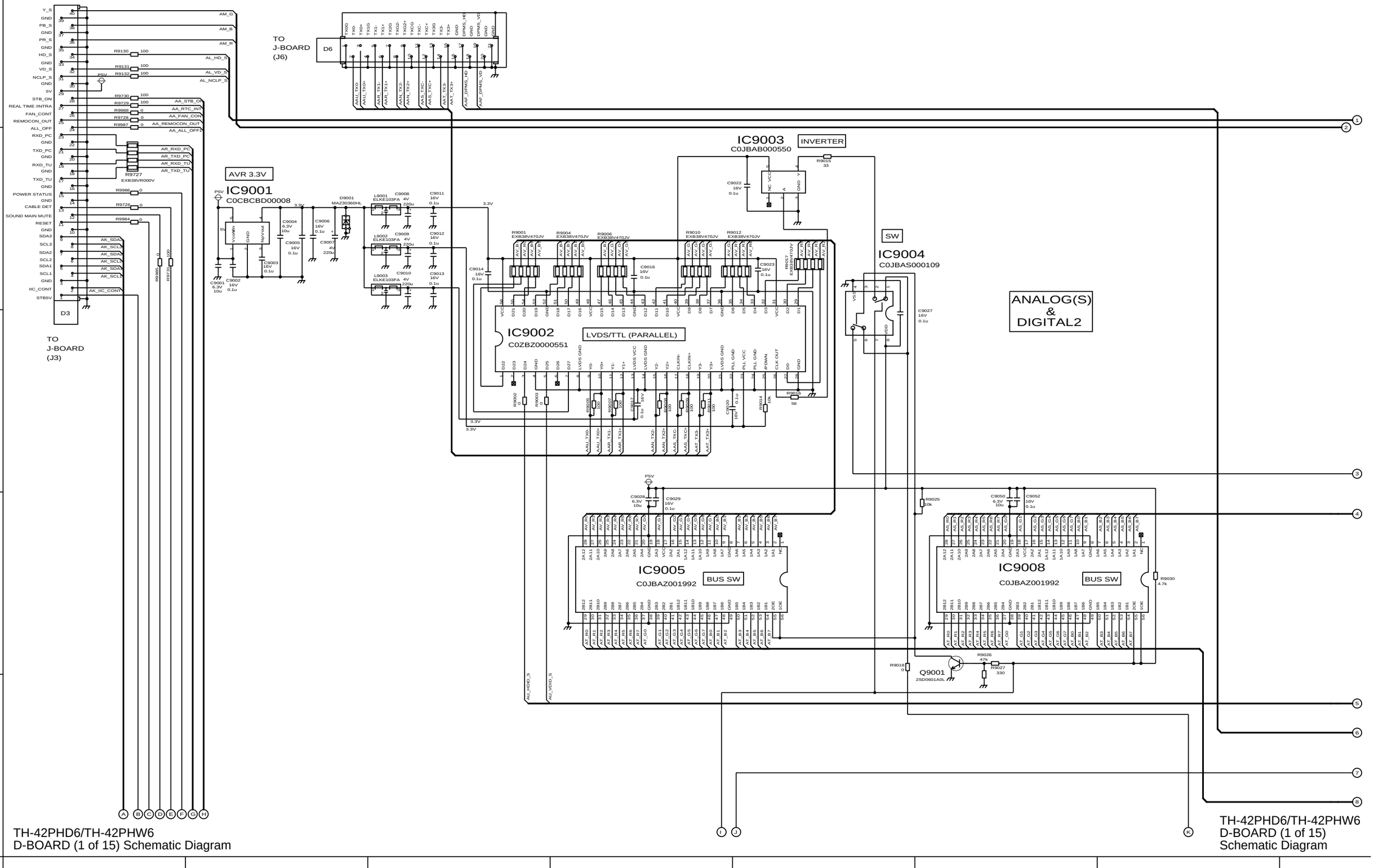
C4-BOARD TNPA2902 (2/2)

TH-42PHD6/TH-42PHW6
C4-BOARD (2 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
C4-BOARD (2 of 2) Schematic Diagram

8 9 10 11 12 13 14 15

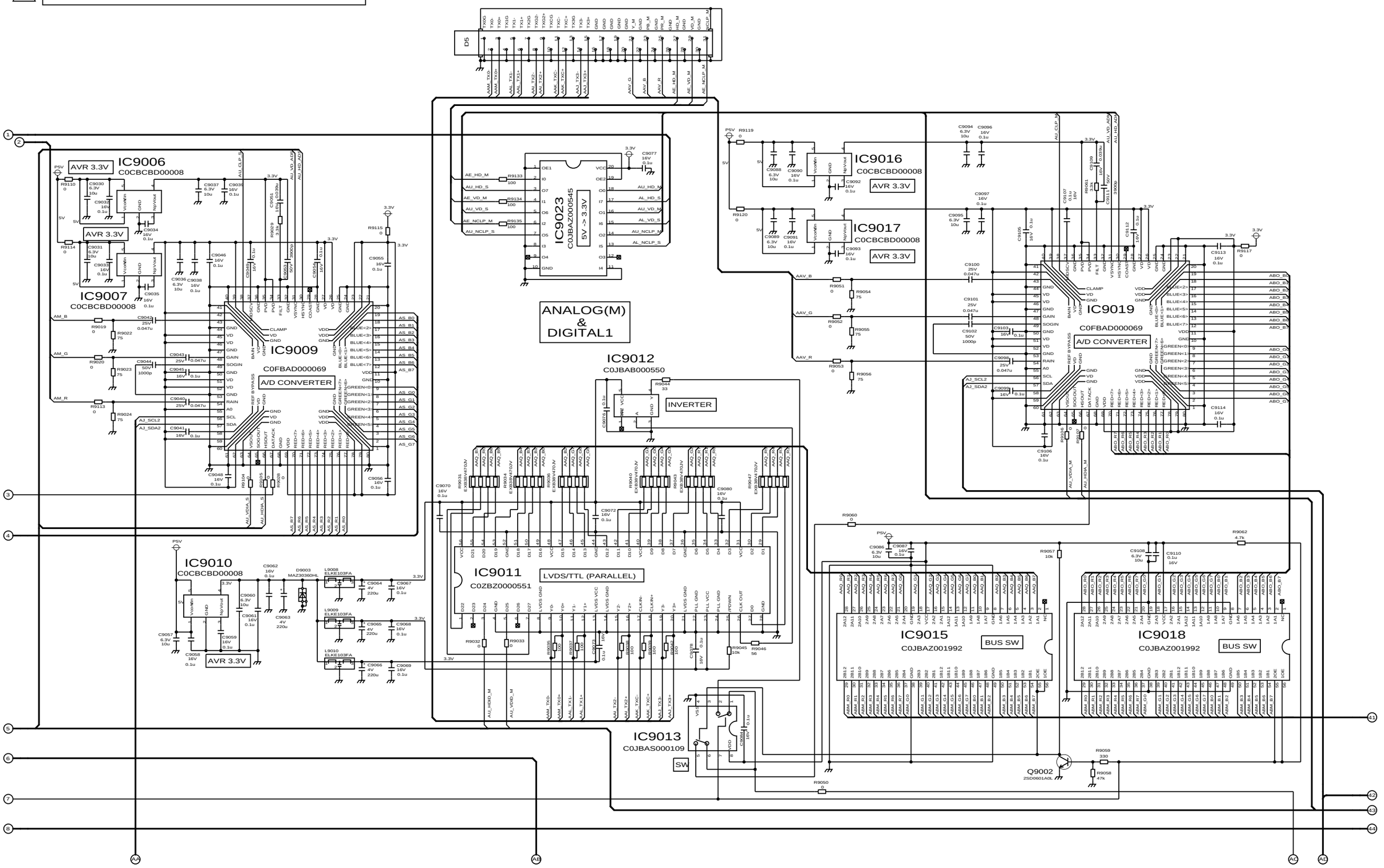
D-BOARD TZTNP01QJSU (1/15)



TH-42PHD6/TH-42PHW6
D-BOARD (1 of 15) Schematic Diagram

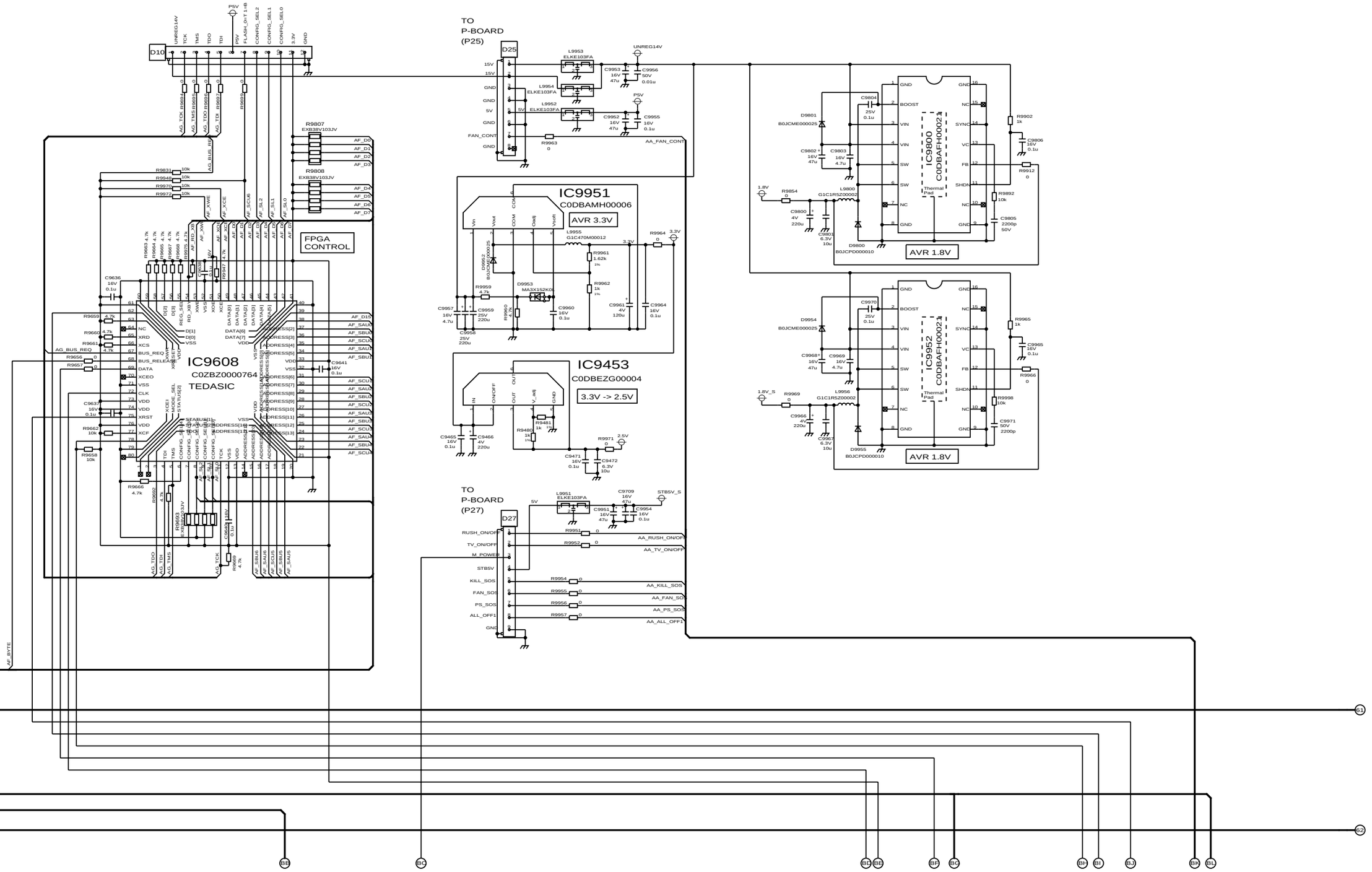
TH-42PHD6/TH-42PHW6
D-BOARD (1 of 15)
Schematic Diagram

D-BOARD TZTNP01QJSU (2/15)

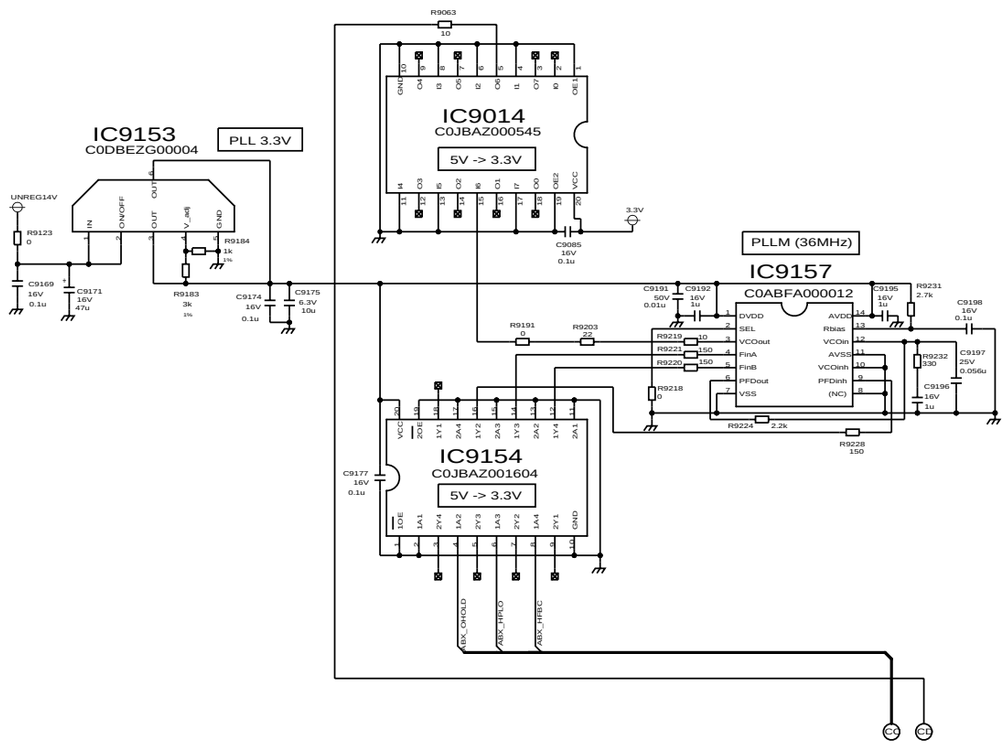


TH-42PHD6/TH-42PHW6 D-BOARD (2 of 15) Schematic Diagram

D-BOARD TZTNP01QJSU (3/15)



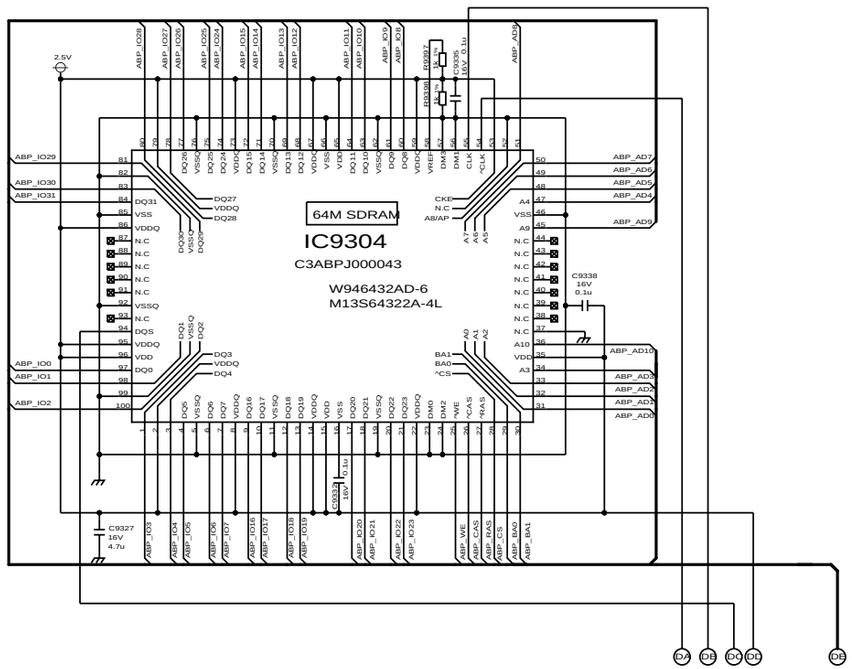
D-BOARD TZTNP01QJSU (4/15)



TH-42PHD6/TH-42PHW6 D-BOARD (4 of 15) Schematic Diagram

TH-42PHD6/TH-42PHW6
D-BOARD (4 of 15) Schematic Diagram

D-BOARD TZTNP01QJSU (5/15)



TH-42PHD6/TH-42PHW6
D-BOARD (5 of 15) Schematic Diagram

D-BOARD TZTNP01QJSU (6/15)

IC9701
MN102L230
MICRO PROCESSOR

IC9711
C0JBAS000109
SW

IC9702
C3EBJC000038
EEPROM

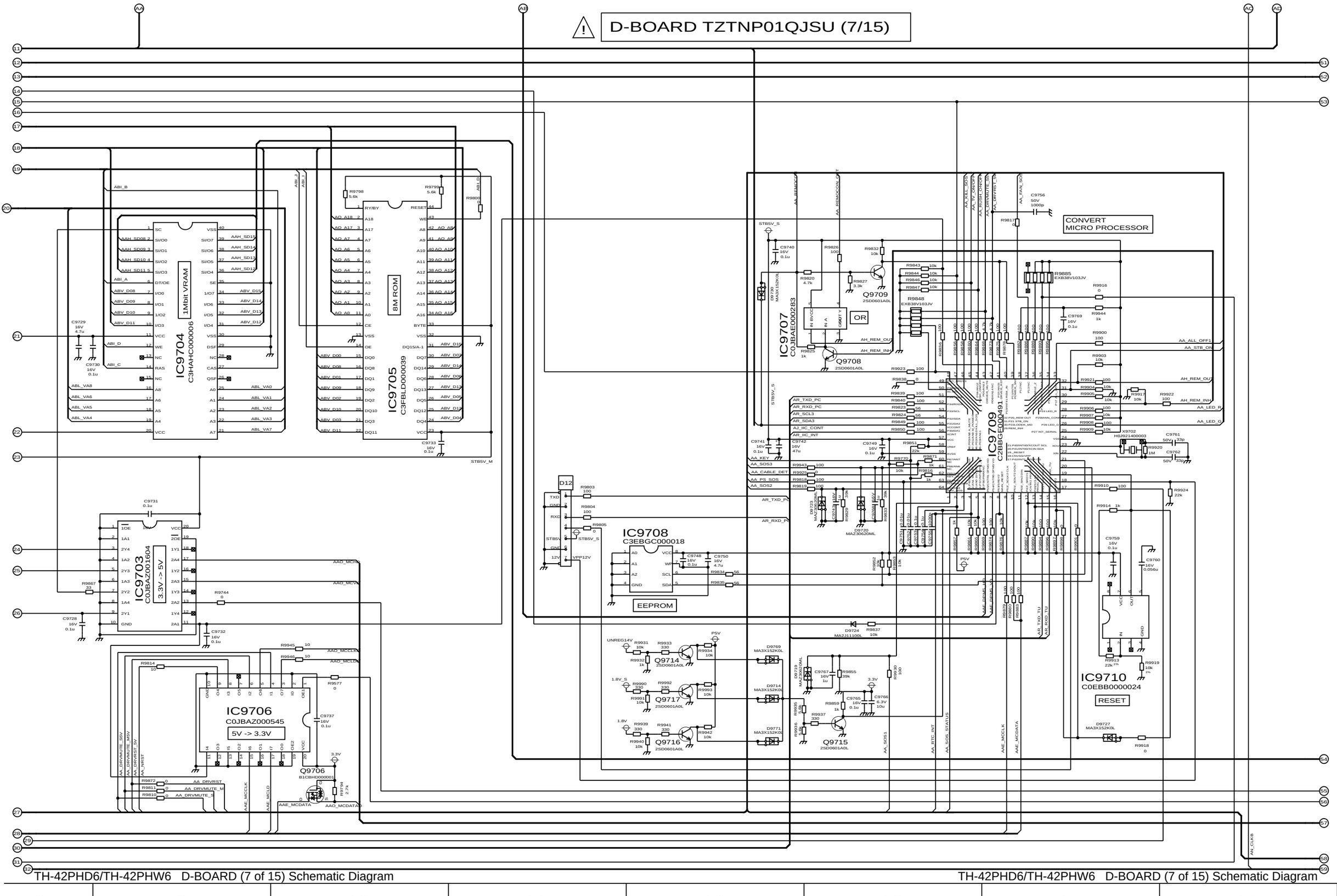
IIC CONT

5V <-> 3.3V

TO
SC-BOARD
(SC20)

TH-42PHD6/TH-42PHW6 D-BOARD (6 of 15) Schematic Diagram

D-BOARD TZTNP01QJSU (7/15)



TH-42PHD6/TH-42PHW6 D-BOARD (7 of 15) Schematic Diagram

D-BOARD TZTNP01QJSU (8/15)

IC9605
C1ZBZ0002329

SYNC PROCESSOR/
OSD/
DISCHARGE CONTROL

IC9603
C0JBAZ001604
3.3V -> 5V

IC9604
C0JBAZ001604
3.3V -> 5V

IC9601
C0JBAZ001604
3.3V -> 5V

IC9602
C0JBAZ000545
5V -> 3.3V

IC9606
C0EBE0000066
RESET

Q9601 2SD0601A0L

Q9602 2SD0601A0L

TH-42PHD6/TH-42PHW6 D-BOARD (8 of 15) Schematic Diagram

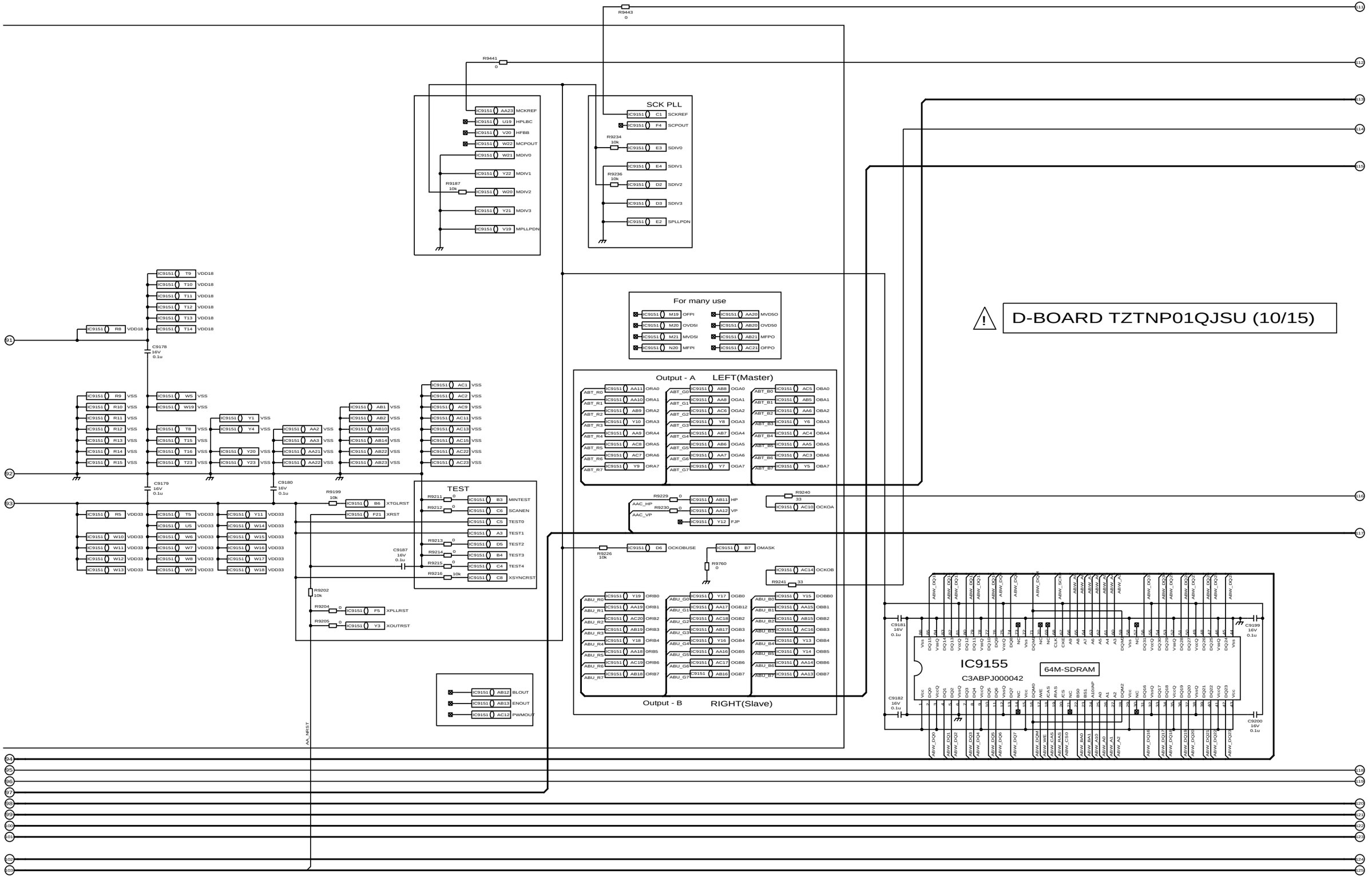
D-BOARD TZTNP01QJSU (9/15)

IC9151
MN845041-A
FORMAT CONVERTER

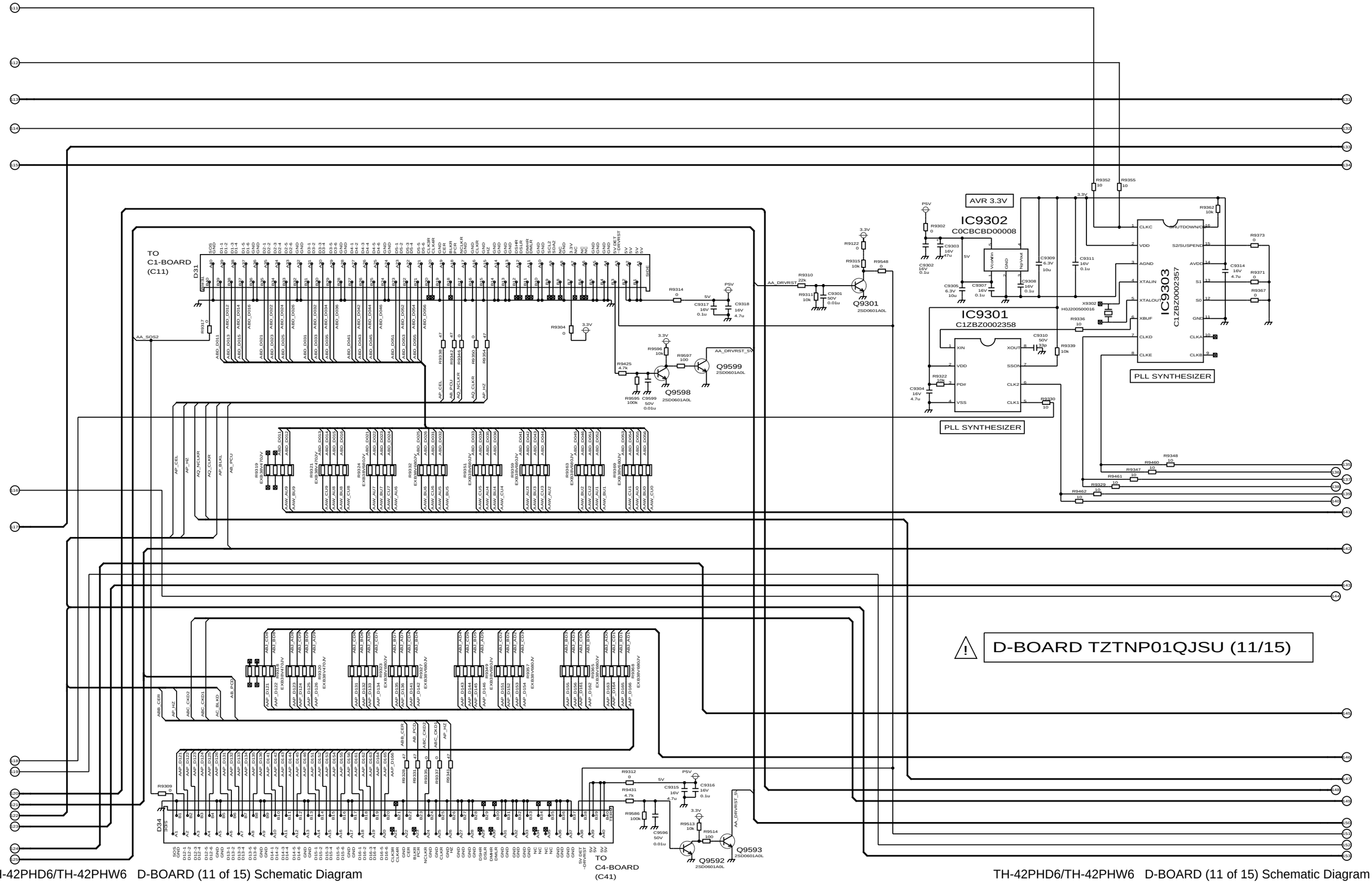
IC9152
C0CBCBD00008
AVR 3.3V

Analog
A/D PLL
OCK PLL
Digital-B
Digital-C
IIC
OSD
SD-RAM I/F
To micom

TH-42PHD6/TH-42PHW6 D-BOARD (9 of 15) Schematic Diagram



TH-42PHD6/TH-42PHW6 D-BOARD (10 of 15) Schematic Diagram



TH-42PHD6/TH-42PHW6 D-BOARD (11 of 15) Schematic Diagram

D-BOARD TZTNP01QJSU (12/15)

IC9305 MN84510-A RIGHT(Slave)

PLASMA AI
SUB FIELD PROCESSOR

From LSI43

FC RAM I/F

CLK

other

FPGA I/F

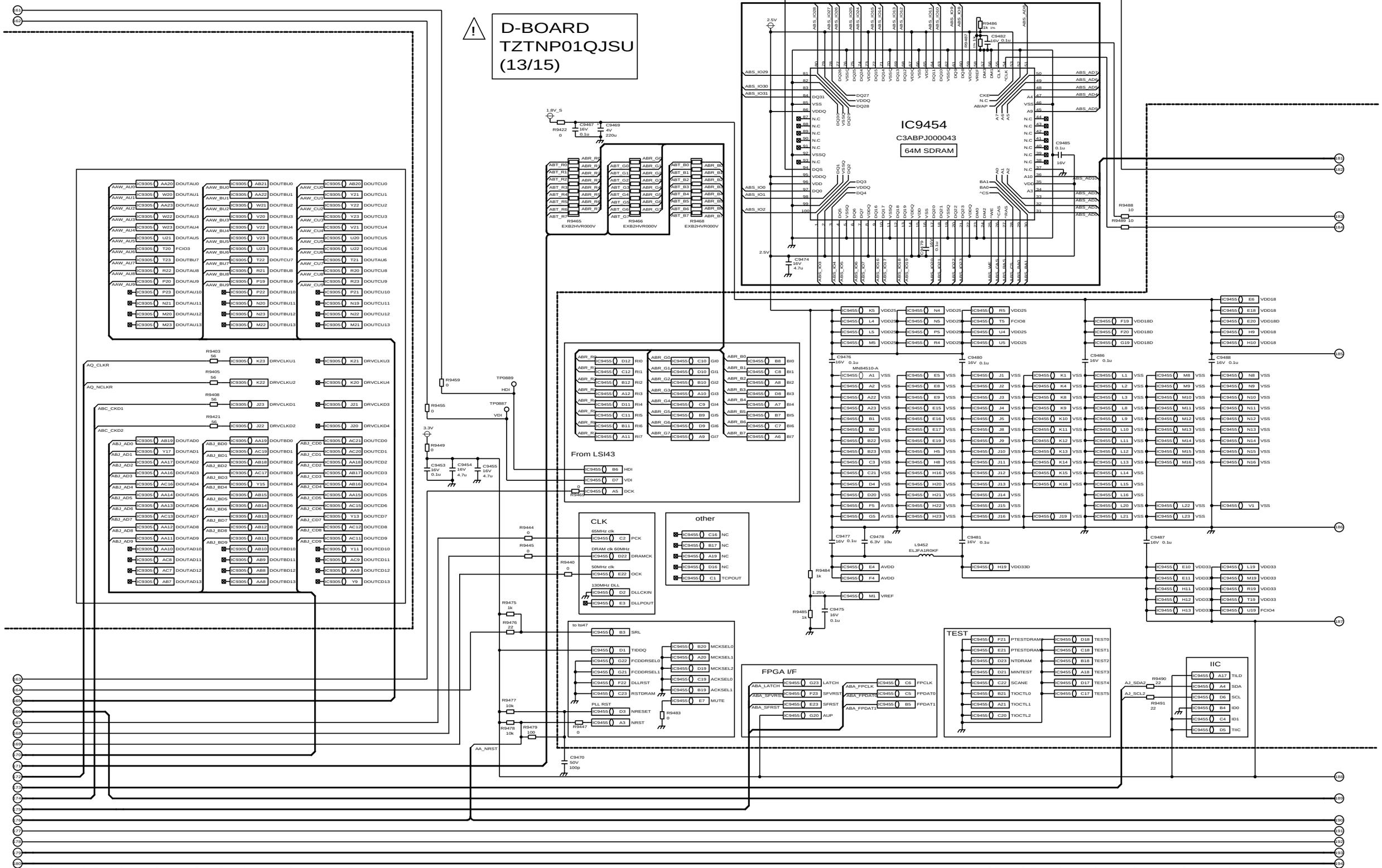
TEST

IIC

Flash ROM I/F

TH-42PHD6/TH-42PHW6 D-BOARD (12 of 15) Schematic Diagram

D-BOARD
TZTNP01QJSU
(13/15)



D-BOARD TZTNP01QJSU (14/15)

IC9455 MN84510-A L master

PLASMA AI
SUB FIELD PROCESSOR

FC RAM I/F

IC9455 G1	DQS0	ABS_CS	IC9455 H1	CS	ABS_AD0	IC9455 E2	FCADR0	ABS_AD8	IC9455 M2	FCADR8	ABS_IO0	IC9455 R2	FCIO0	ABS_IO8	IC9455 T4	FCIO6
IC9455 H4	DQS1	ABS_RAS	IC9455 N2	RAS	ABS_AD1	IC9455 E1	FCADR1	ABS_AD9	IC9455 M3	FCADR9	ABS_IO1	IC9455 R3	FCIO1	ABS_IO9	IC9455 W1	FCIO9
IC9455 H3	DQS2	ABS_CAS	IC9455 N3	CAS	ABS_AD2	IC9455 F3	FCADR2	ABS_AD10	IC9455 M4	FCADR10	ABS_IO2	IC9455 T1	FCIO2	ABS_IO10	IC9455 V2	FCIO10
IC9455 H2	DQS3	ABS_WE	IC9455 P2	WE	ABS_AD3	IC9455 F2	FCADR3	IC9455 N1	FCADRX		ABS_IO3	IC9455 T2	VDD33	ABS_IO11	IC9455 Y1	FCIO11
130MHz CKOUT		ABS_BA0	IC9455 P3	BA0	ABS_AD4	IC9455 F1	FCADR4				ABS_IO4	IC9455 U1	VSS	ABS_IO12	IC9455 V3	FCIO12
IC9455 K3	CLK	ABS_BA1	IC9455 P4	BA1	ABS_AD5	IC9455 G4	FCADR5				ABS_IO5	IC9455 U2	FCIO5	ABS_IO13	IC9455 W2	FCIO13
IC9455 K2	NCLK		IC9455 R1	BA2	ABS_AD6	IC9455 G3	FCADR6				ABS_IO6	IC9455 T3	DOUTAU7	ABS_IO14	IC9455 V4	FCIO14
					ABS_AD7	IC9455 G2	FCADR7				ABS_IO7	IC9455 U3	FCIO7	ABS_IO15	IC9455 W3	FCIO15

ABS_IO16	IC9455 Y2	VSS	ABS_IO24	IC9455 AB4	FCIO24	AI_AU0	IC9455 AA20	DOUTAU0	AI_BU0	IC9455 AB21	DOUTBU0	AI_CU0	IC9455 AB20	DOUTCU0	
ABS_IO17	IC9455 AA1	FCIO17	ABS_IO25	IC9455 AC4	FCIO25	AI_AU1	IC9455 W20	DOUTAU1	AI_BU1	IC9455 AA22	DOUTBU1	AI_CU1	IC9455 Y21	DOUTCU1	
ABS_IO18	IC9455 AA2	VSS	ABS_IO26	IC9455 AA6	FCIO26	AI_AU2	IC9455 AA23	DOUTAU2	AI_BU2	IC9455 W21	DOUTBU2	AI_CU2	IC9455 Y22	DOUTCU2	
ABS_IO19	IC9455 Y3	FCIO19	ABS_IO27	IC9455 Y7	FCIO27	AI_AU3	IC9455 W22	DOUTAU3	AI_BU3	IC9455 V20	DOUTBU3	AI_CU3	IC9455 Y23	DOUTCU3	
ABS_IO20	IC9455 AB3	FCIO20	ABS_IO28	IC9455 AB5	FCIO28	AI_AU4	IC9455 W23	DOUTAU4	AI_BU4	IC9455 V22	DOUTBU4	AI_CU4	IC9455 V21	DOUTCU4	
ABS_IO21	IC9455 AA4	FCIO21	ABS_IO29	IC9455 AA7	FCIO29	AI_AU5	IC9455 U21	DOUTAU5	AI_BU5	IC9455 V23	DOUTBU5	AI_CU5	IC9455 U20	DOUTCU5	
ABS_IO22	IC9455 AC3	FCIO22	ABS_IO30	IC9455 AB6	FCIO30	AI_AU6	IC9455 T20	FCIO3	AI_BU6	IC9455 U23	DOUTBU6	AI_CU6	IC9455 U22	DOUTCU6	
ABS_IO23	IC9455 AA5	FCIO23	ABS_IO31	IC9455 AC5	FCIO31	AI_AU7	IC9455 T23	DOUTBU7	AI_BU7	IC9455 T22	DOUTCU7	AI_CU7	IC9455 T21	DOUTAU6	
						AI_AU8	IC9455 R22	DOUTAU8	AI_BU8	IC9455 R21	DOUTBU8	AI_CU8	IC9455 R20	DOUTCU8	
						AI_AU9	IC9455 P20	DOUTAU9	AI_BU9	IC9455 P19	DOUTBU9	AI_CU9	IC9455 R23	DOUTCU9	
						AI_AU10	IC9455 P23	DOUTAU10	AI_BU10	IC9455 P22	DOUTBU10	AI_CU10	IC9455 P21	DOUTCU10	
						AI_AU11	IC9455 N21	DOUTAU11	AI_BU11	IC9455 N20	DOUTBU11	AI_CU11	IC9455 N19	DOUTCU11	
							IC9455 M20	DOUTAU12		IC9455 N23	DOUTBU12		IC9455 N22	DOUTCU12	
							IC9455 M23	DOUTAU13		IC9455 M22	DOUTBU13		IC9455 M21	DOUTCU13	

to DATA Driver

AP_CLKL	R9496 56	IC9455 K23	DRVCLKU1												
AP_NCLKL	R9498 56	IC9455 K22	DRVCLKU2												
							IC9455 K21	DRVCLKU3							
							IC9455 K20	DRVCLKU4							
	R9501 56						IC9455 J21	DRVCLKD3							
ABF_CKD1	R9503 56	IC9455 J23	DRVCLKD1												
ABF_CKD2		IC9455 J22	DRVCLKD2				IC9455 J20	DRVCLKD4							

ABK_AD0	IC9455 AB19	DOUTAD0	ABK_BD0	IC9455 AA19	DOUTBD0	ABK_CD0	IC9455 AC21	DOUTCD0							
ABK_AD1	IC9455 Y17	DOUTAD1	ABK_BD1	IC9455 AC19	DOUTBD1	ABK_CD1	IC9455 AC20	DOUTCD1							
ABK_AD2	IC9455 AA17	DOUTAD2	ABK_BD2	IC9455 AB18	DOUTBD2	ABK_CD2	IC9455 AA18	DOUTCD2							
ABK_AD3	IC9455 AA16	DOUTAD3	ABK_BD3	IC9455 AC17	DOUTBD3	ABK_CD3	IC9455 AB17	DOUTCD3							
ABK_AD4	IC9455 AC16	DOUTAD4	ABK_BD4	IC9455 Y15	DOUTBD4	ABK_CD4	IC9455 AB16	DOUTCD4							
ABK_AD5	IC9455 AA14	DOUTAD5	ABK_BD5	IC9455 AB15	DOUTBD5	ABK_CD5	IC9455 AA15	DOUTCD5							
ABK_AD6	IC9455 AA13	DOUTAD6	ABK_BD6	IC9455 AB14	DOUTBD6	ABK_CD6	IC9455 AC15	DOUTCD6							
ABK_AD7	IC9455 AC13	DOUTAD7	ABK_BD7	IC9455 AB13	DOUTBD7	ABK_CD7	IC9455 Y13	DOUTCD7							
ABK_AD8	IC9455 AA12	DOUTAD8	ABK_BD8	IC9455 AB12	DOUTBD8	ABK_CD8	IC9455 AC12	DOUTCD8							
ABK_AD9	IC9455 AA11	DOUTAD9	ABK_BD9	IC9455 AB11	DOUTBD9	ABK_CD9	IC9455 AC11	DOUTCD9							
ABK_AD10	IC9455 AA10	DOUTAD10	ABK_BD10	IC9455 AB10	DOUTBD10	ABK_CD10	IC9455 Y11	DOUTCD10							
ABK_AD11	IC9455 AC8	DOUTAD11	ABK_BD11	IC9455 AB9	DOUTBD11	ABK_CD11	IC9455 AC9	DOUTCD11							
	IC9455 AC7	DOUTAD12		IC9455 AB8	DOUTBD12		IC9455 AA9	DOUTCD12							
	IC9455 AB7	DOUTAD13		IC9455 AA8	DOUTBD13		IC9455 Y9	DOUTCD13							

Flash ROM I/F

AF_D0	IC9455 B16	ROMD0	AF_D8	IC9455 C14	ROMD8	IC9455 H14	VDD18	IC9455 W4	VDD18	IC9455 Y5	VDD18	IC9455 P1	VSS	IC9455 R8	VSS
AF_D1	IC9455 A16	ROMD1	AF_D9	IC9455 B14	ROMD9	IC9455 H15	VDD18	IC9455 W6	VDD18	IC9455 Y6	VDD18	IC9455 P8	VSS	IC9455 R9	VSS
AF_D2	IC9455 D15	ROMD2	AF_D10	IC9455 A14	ROMD10	IC9455 K19	VDD18	IC9455 W7	VDD18	IC9455 Y18	VDD18	IC9455 P9	VSS	IC9455 R10	VSS
AF_D3	IC9455 C15	ROMD3	AF_D11	IC9455 E13	ROMD11	IC9455 V5	VDD18	IC9455 W17	VDD18	IC9455 Y19	VDD18	IC9455 P10	VSS	IC9455 R11	VSS
AF_D4	IC9455 B15	ROMD4	AF_D12	IC9455 D13	ROMD12	IC9455 V19	VDD18	IC9455 W18	VDD18			IC9455 P11	VSS	IC9455 R12	VSS
AF_D5	IC9455 A15	ROMD5	AF_D13	IC9455 C13	ROMD13							IC9455 P12	VSS	IC9455 R13	VSS
AF_D6	IC9455 E14	ROMD6	AF_D14	IC9455 B13	ROMD14							IC9455 P13	VSS	IC9455 R14	VSS
AF_D7	IC9455 D14	ROMD7	AF_D15	IC9455 A13	ROMD15							IC9455 P14	VSS	IC9455 R15	VSS
IC9455 E12	ROMCE											IC9455 P15	VSS	IC9455 R16	VSS
												IC9455 P16	VSS		

IC9455 T8	VDD25	IC9455 AB1	VSS	IC9455 W5	VSS	IC9455 Y4	VSS	IC9455 AA3	VSS	IC9455 AC22	VSS				
IC9455 T9	VSS	IC9455 AB2	VSS	IC9455 W19	VSS	IC9455 Y20	FCIO16	IC9455 AA21	FCIO18	IC9455 AC23	VSS				
IC9455 T10	VSS	IC9455 AB22	VSS												
IC9455 T11	VSS	IC9455 AB23	VSS												
IC9455 T12	VSS														
IC9455 T13	VSS														
IC9455 T14	VSS	IC9455 AC1	VSS												
IC9455 T15	VSS	IC9455 AC2	VSS												
IC9455 T16	VSS	IC9455 AC6	VSS												
		IC9455 AC10	VSS												
		IC9455 AC14	VSS												
		IC9455 AC18	VSS												

IC9455 Y8	VDD33	IC9455 W8	VDD33	IC9455 W13	VDD33										
IC9455 Y10	VDD33	IC9455 W9	VDD33	IC9455 W14	VDD33										
IC9455 Y12	VDD33	IC9455 W10	VDD33	IC9455 W15	VDD33										
IC9455 Y14	VDD33	IC9455 W11	VDD33	IC9455 W16	VDD33										
IC9455 Y16	VDD33	IC9455 W12	VDD33												

C9489 16V 0.1u
C9491 16V 0.1u
C9490 16V 0.1u
C9492 16V 0.1u

Q9400 2SD0601A0L

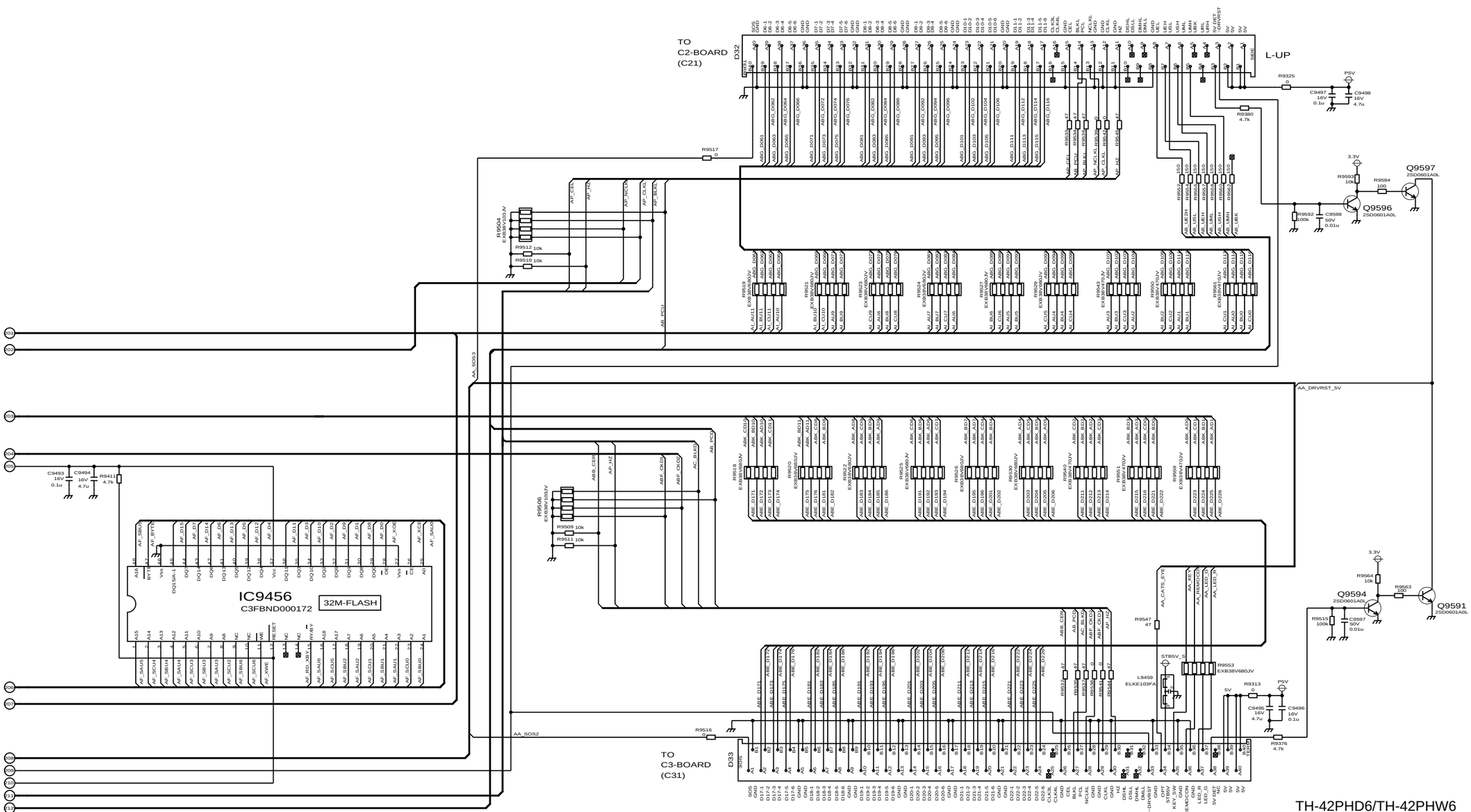
R9413 330
R9420 47k
R9415 4.7k

C9449 16V 0.1u
C9450 6.3V 10u
PSV

IC9459 C0JBAZ001992 BUS SW

AF_SCL0	AF_SBI0	2A12	2A11	2A10	2A9	2A8	2A7	2A6	2A5	2A4	GND	2A3	VCC	2A2	2A1
AF_SCL1	AF_SBI1	1A12	1A11	1A10	1A9	1A8	1A7	GND	1A6	1A5	1A4	1A3	1A2	1A1	NC
AF_SCL2	AF_SBI2	2B12	2B11	2B10	2B9	2B8	2B7	2B6	2B5	2B4	GND	2B3	2B2	2CKE	LCE
AF_SCL3	AF_SBI3	1B12	1B11	1B10	1B9	1B8	1B7	1B6	1B5	1B4	GND	1B3	1B2	1CKE	
AF_SCL4	AF_SBI4	AI_AU0	AI_CU5	AI_BU5	AI_AU5	AI_CU4	AI_BU4	AI_CU3	AI_BU3	AI_CU2	AI_BU2	AI_AU3	AI_CU1	AI_BU1	AI_AU1
AF_SCL5	AF_SBI5	AF_BYTE													
AF_SCL6	AF_SBI6														
AF_SCL7	AF_SBI7														
AF_SCL8	AF_SBI8														
AF_SCL9	AF_SBI9														
AF_SCL10	AF_SBI10														

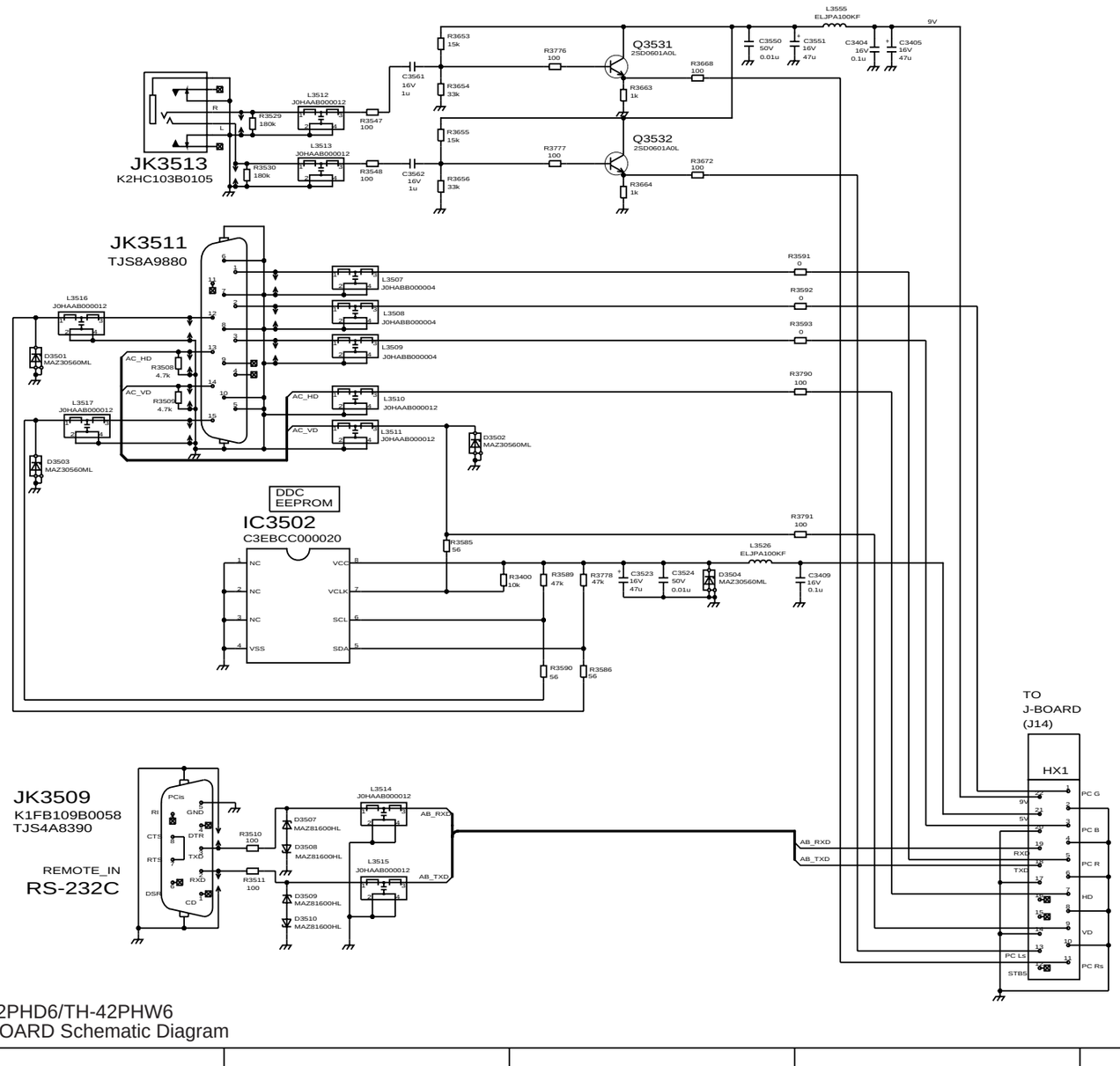
D-BOARD TZTNP01QJSU (15/15)



TH-42PHD6/TH-42PHW6 D-BOARD (15 of 15) Schematic Diagram

TH-42PHD6/TH-42PHW6
D-BOARD (15 of 15) Schematic Diagram

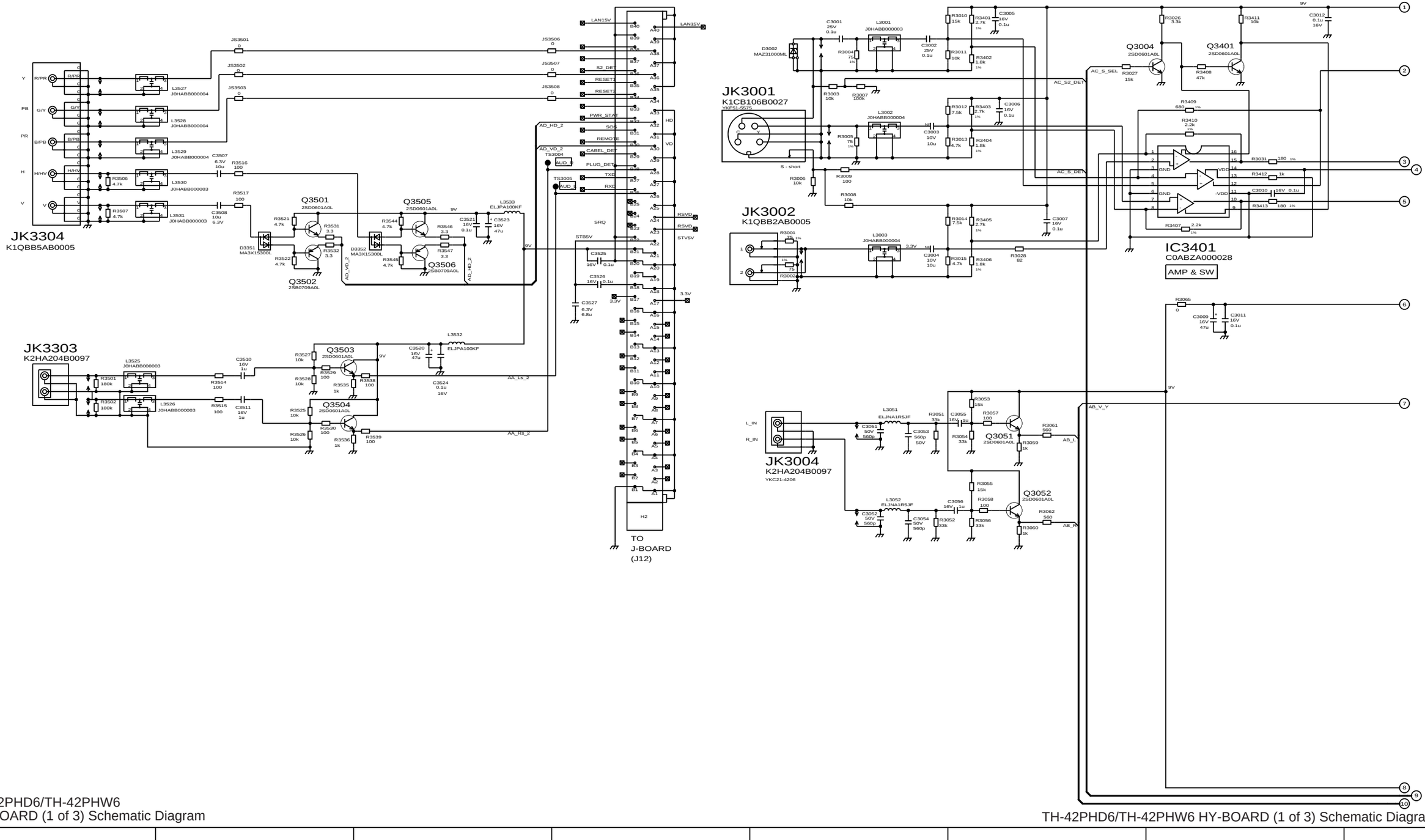
⚠ HX-BOARD TZTNP020QJS



TH-42PHD6/TH-42PHW6
HX-BOARD Schematic Diagram

TH-42PHD6/TH-42PHW6
HX-BOARD Schematic Diagram

HY-BOARD TXNHY10QBS (1/3)



TH-42PHD6/TH-42PHW6
HY-BOARD (1 of 3) Schematic Diagram

TH-42PHD6/TH-42PHW6 HY-BOARD (1 of 3) Schematic Diagram

HY-BOARD TXNHY10QBS (2/3)

IC3101
C0DBEZG00004

AVR 2.5V

IC3104
C0EBE0000066
RESET

IC3102
C0DBZLB00001
ERROR DET

Global_tvsignal_processing_CoreLSI

GC2M+

ver.2_for_Main_processor

IC3103
C1AB000001826

IC3201
C3HBKZ000001
M58LV05200-137A
5M_FIFO

IC3105
C0JBAZ001834
5V -> 3.3V

IC3301
C0CBABB00029
AVR 3.3V

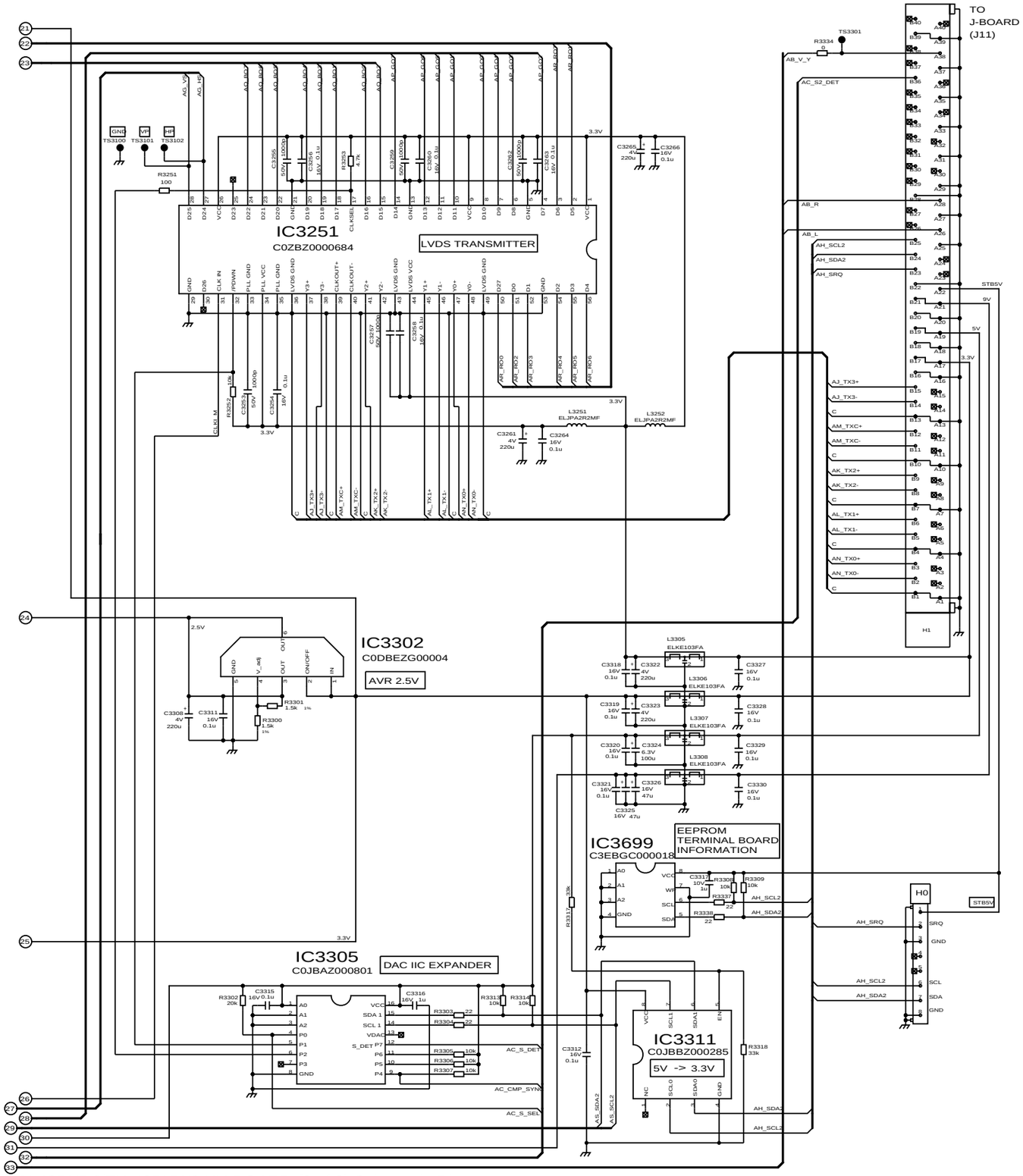
IC3303
AN80L25RMSTX
AVR 2.5V

For BurstLock PLL Macro

For Mid_CLK PLL Macro

For FBP PLL

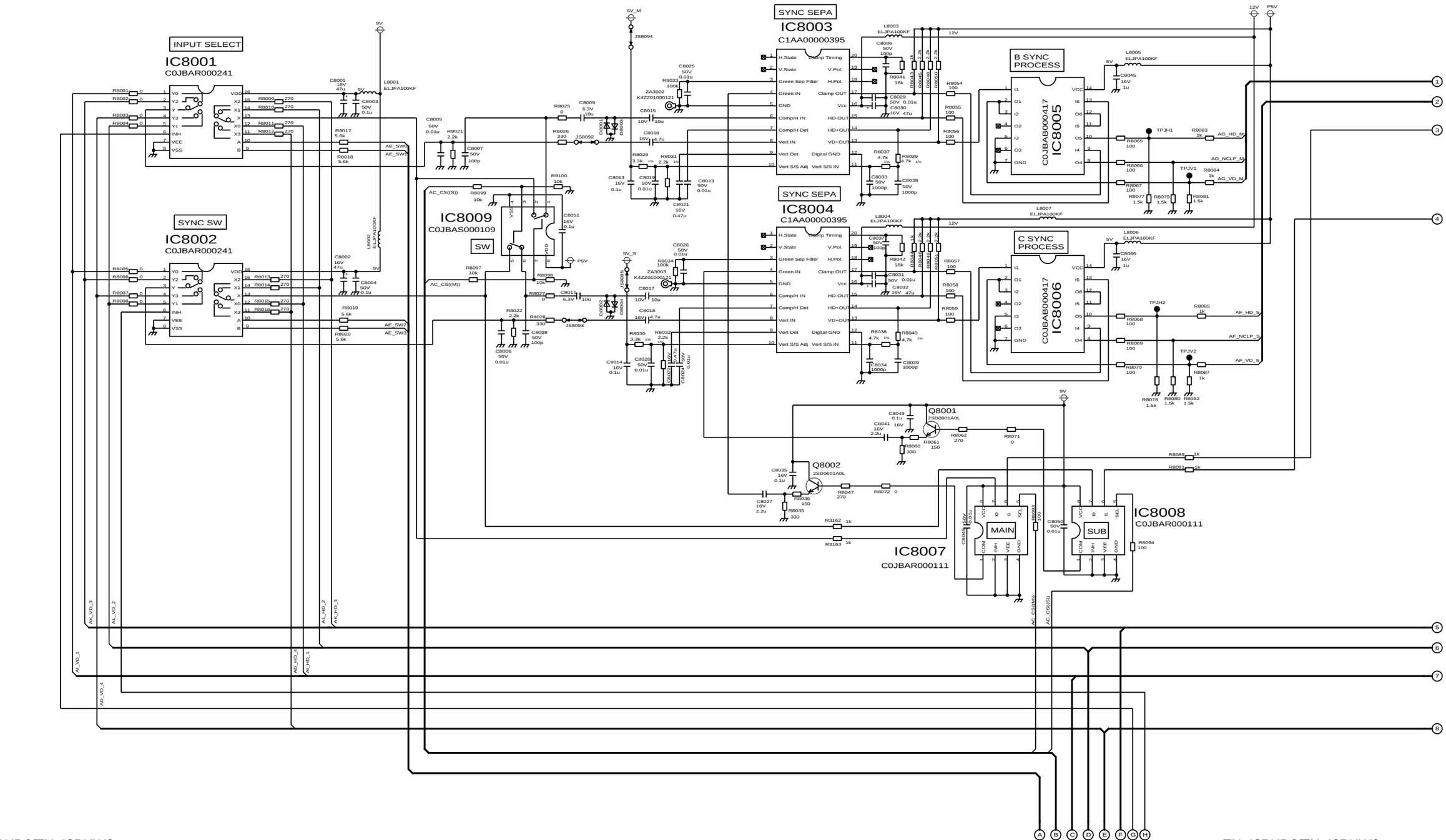
TH-42PHD6/TH-42PHW6 HY-BOARD (2 of 3)Schematic Diagram



HY-BOARD TXNHY10QBS (3/3)

TH-42PHD6/TH-42PHW6 HY-BOARD (3 of 3) Schematic Diagram

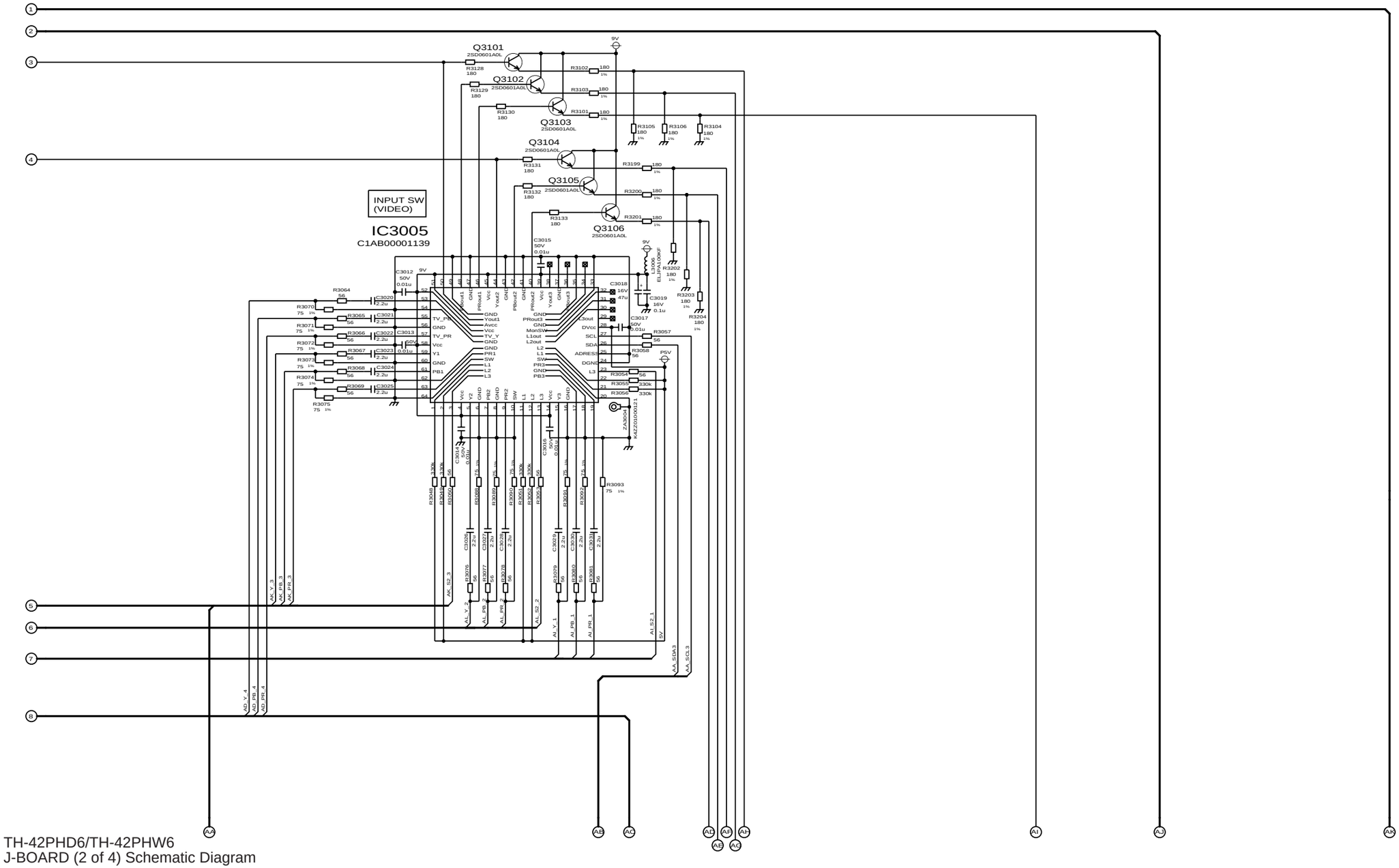
J-BOARD TNPA2826 (1/4)



TH-42PHD6/TH-42PHW6
J-BOARD (1 of 4) Schematic Diagram

TH-42PHD6/TH-42PHW6
J-BOARD (1 of 4) Schematic Diagram

J-BOARD TNPA2826 (2/4)



TH-42PHD6/TH-42PHW6
J-BOARD (2 of 4) Schematic Diagram

TH-42PHD6/TH-42PHW6
J-BOARD (2 of 4) Schematic Diagram

8 9 10 11 12 13 14 15

J-BOARD TNPA2826 (3/4)

TO Z-BOARD (Z8) — J8

TO PF-BOARD (PF10) — J10

TO D-BOARD (D3) — J3

IC952 C0CBAHG00005 — AVR 9V

IC951 C0CBAKG00003 — AVR 12V

IC3007 C0JBAS000109 — SW

IC1001 C1DB00000274 — TIMER IC

IC3001 C0JBAR000241 — AUDIO SW

IC3003 C1AB00000441 — EXPAND I/O

IC3002 C0JBBR000002 — IIC SW

IC3004 C1AB00000454 — EXPAND I/O

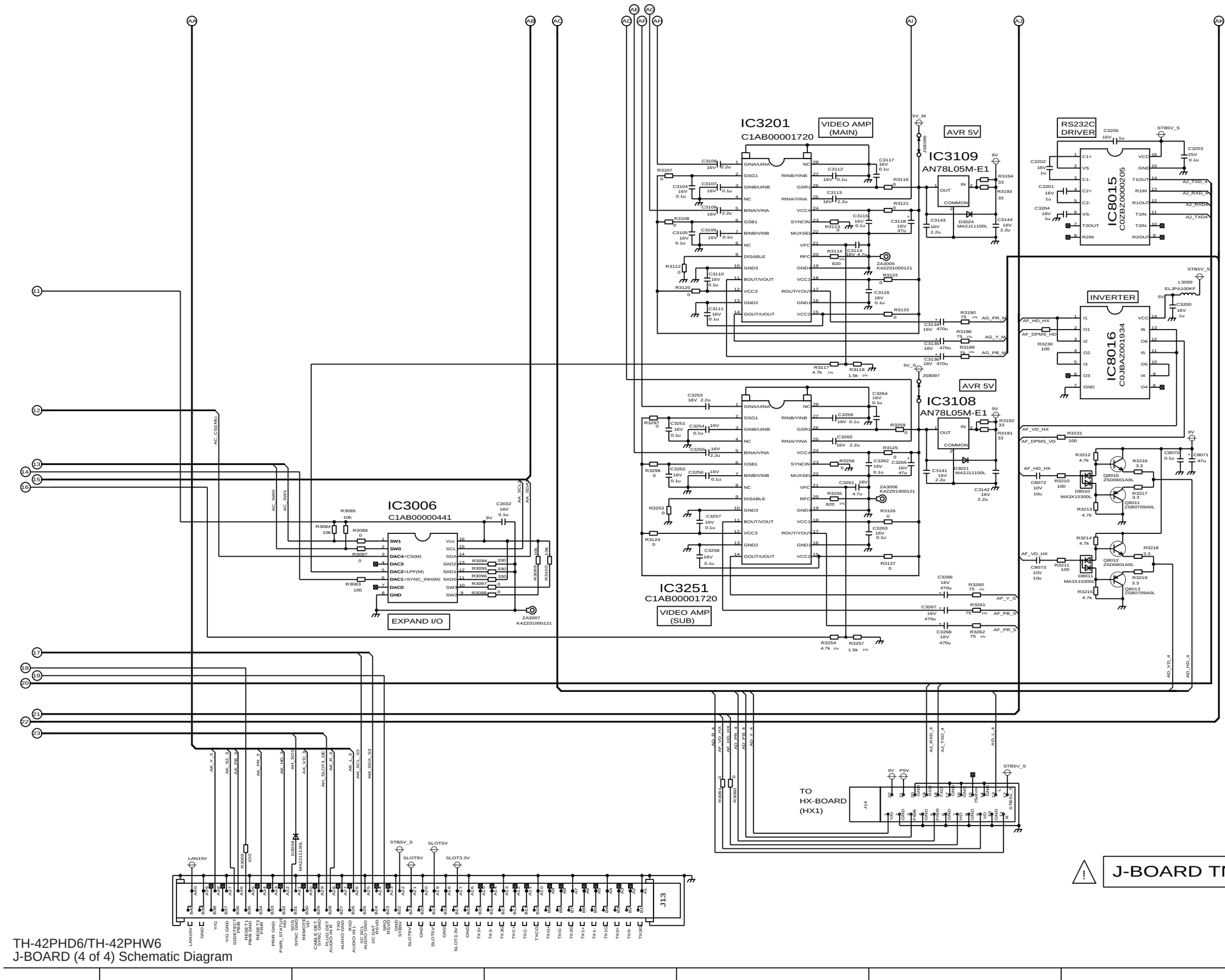
TO D-BOARD (D5) — J5

TO D-BOARD (D6) — J6

TO HY-BOARD (H1) — J11

TO HY-BOARD (H2) — J12

TH-42PHD6/TH-42PHW6 J-BOARD (3 of 4) Schematic Diagram



J-BOARD TNPA2826 (4/4)

TH-42PHD6/TH-42PHW6
J-BOARD (4 of 4) Schematic Diagram

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

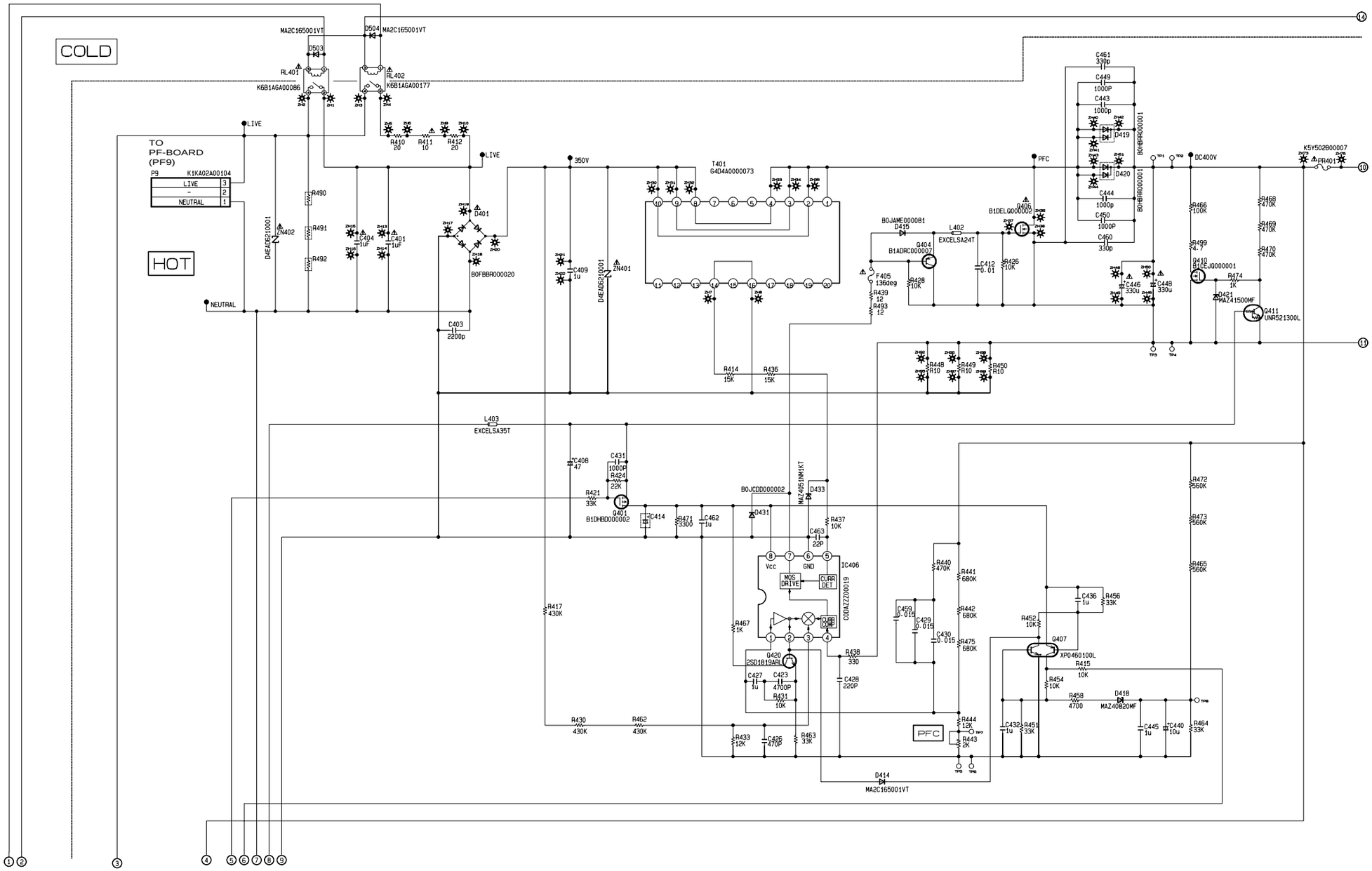
Notes:

1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [ ] (K=1,000, M=1,000,000).
   - ◯ : Nonflammable
   - △ : Solid
   - ◪ : Wire Wound
   - ⊠ : Metal Oxide
   - ◎ : Metal Film
   - ⊗ : Fuse**:**
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is F, unless otherwise noted.
   - ⊗ : Temperature Compensation
   - Ⓜ : Polyester
   - ⓜ : Metalized Polyester
   - ⊠ : Polypropylene
   -  : Electrolytic
   -  : Bipolar
   - Ⓣ : Dipped Tantalum
   - Ⓩ : Z-Type
3. Coil
   Unit of inductance is F, unless otherwise noted.
4. Test Point
   - ⚲ : Test Point position
5. Earth Symbol
   - ⏚ : Chassis Earth (Cold)
   - ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source .....AC 120V, 50/60Hz (UY VERSION model)/ AC220-240V, 50/60Hz (Except UY VERSION)
   Receiving Signal ..... Colour Bar signal (RF)
   All customer's controls ..... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
      Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

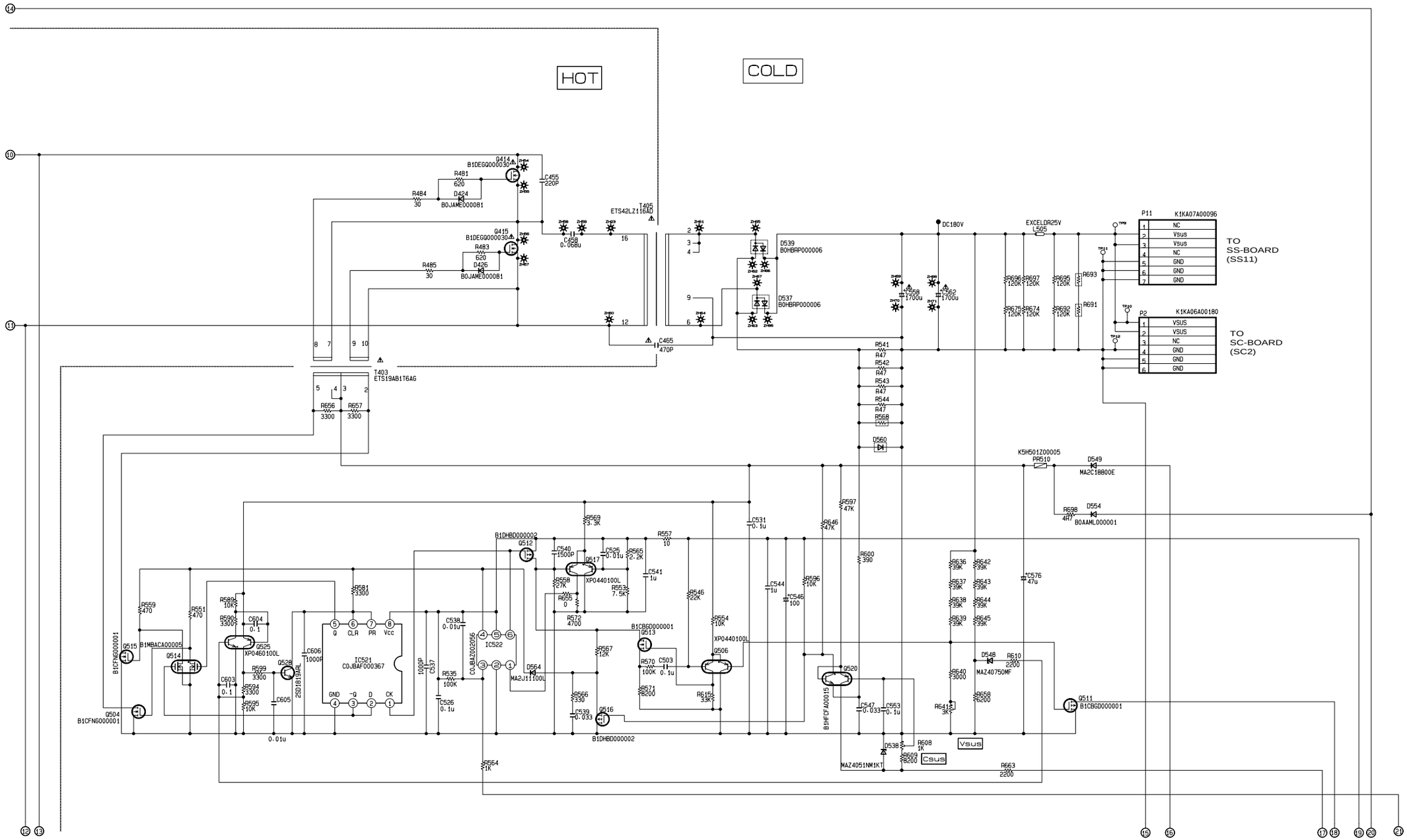
⚠ P-BOARD TNPA2889 (1/6)



TH-42PHD6/TH-42PHW6
P-BOARD (1 of 6) Schematic Diagram

TH-42PHD6/TH-42PHW6
P-BOARD (1 of 6) and Schematic Diagram

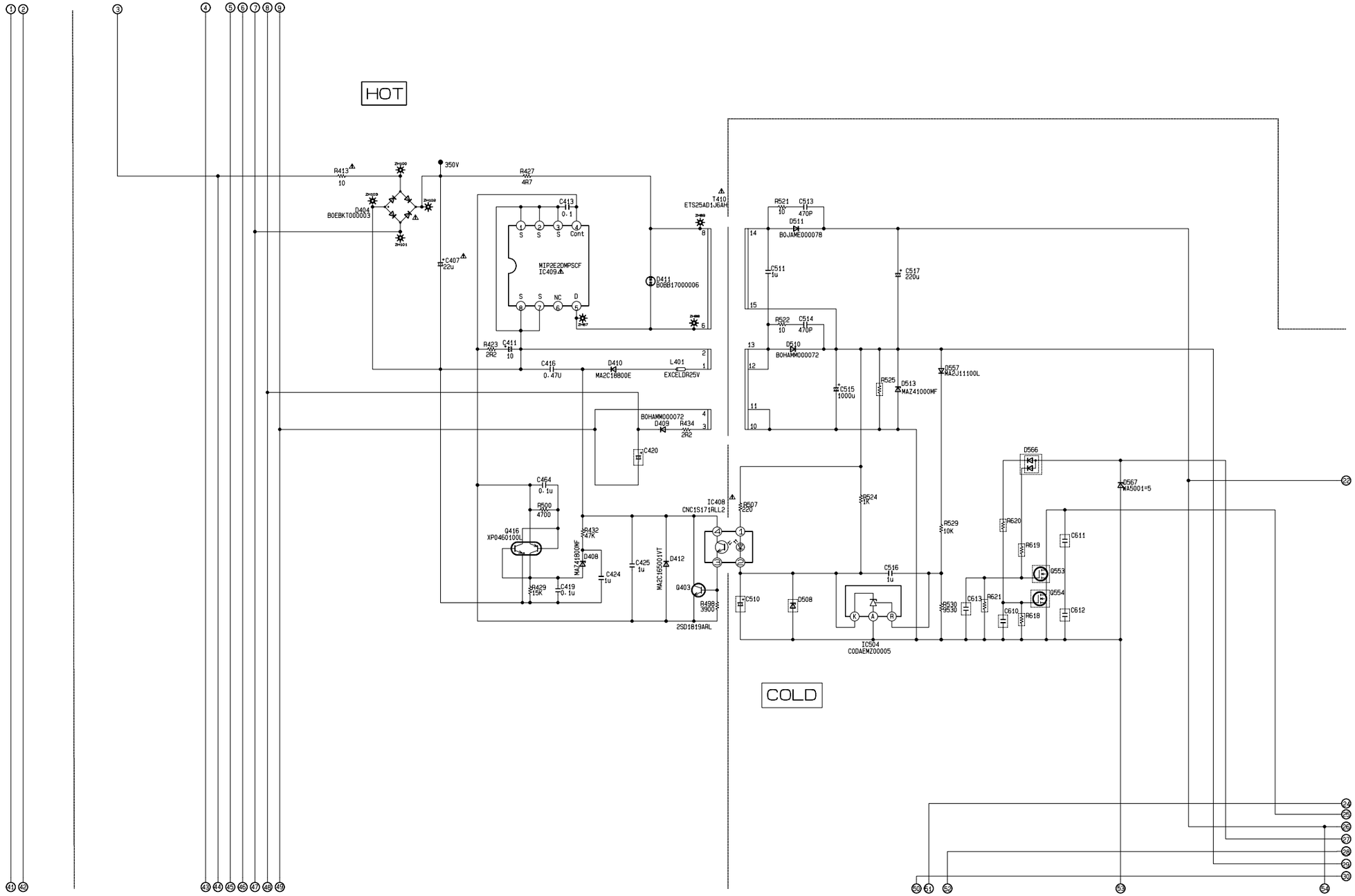
P-BOARD TNPA2889 (2/6)



TH-42PHD6/TH-42PHW6
P-BOARD (2 of 6) Schematic Diagram

TH-42PHD6/TH-42PHW6
P-BOARD (2 of 6) Schematic Diagram

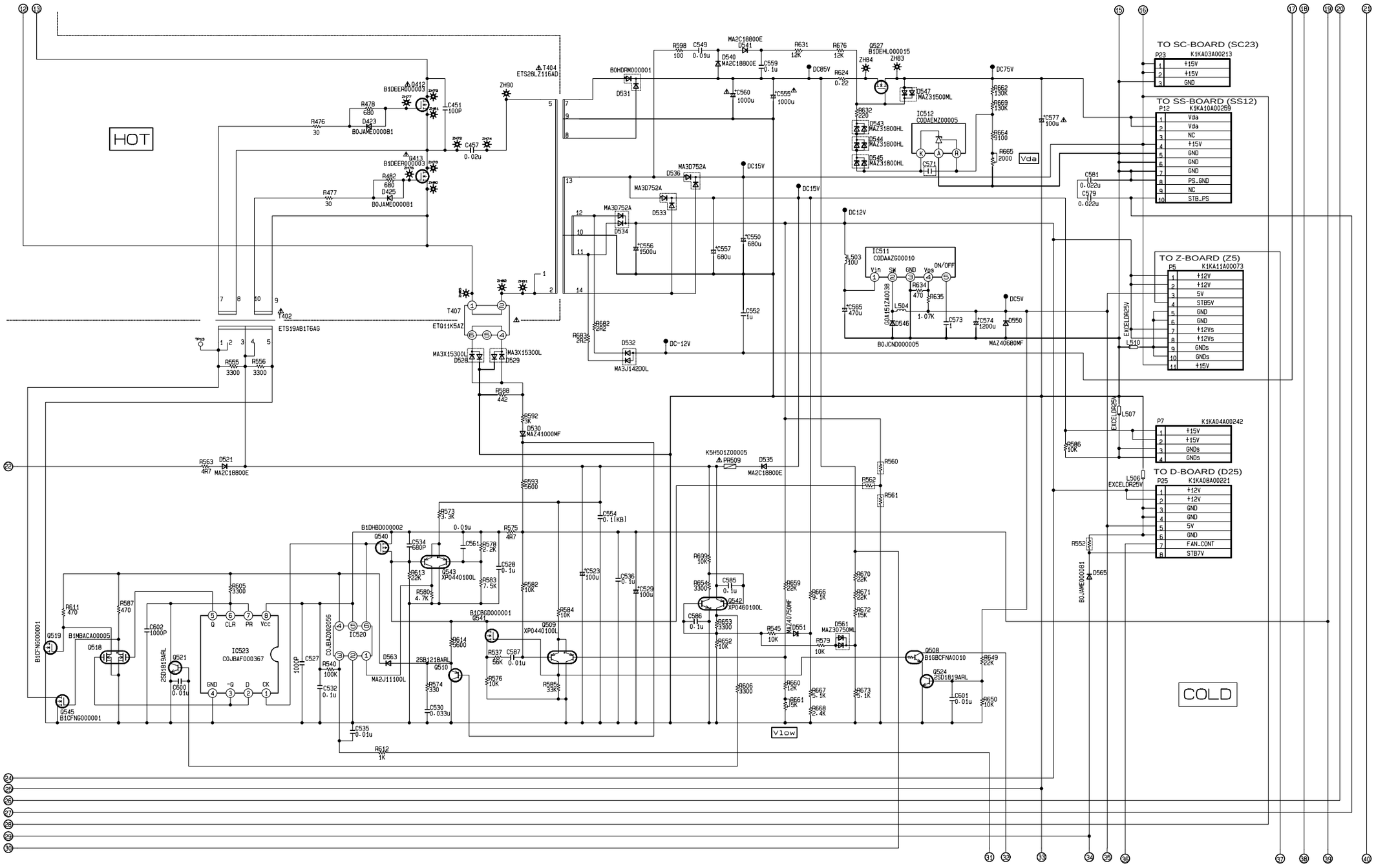
P-BOARD TNPA2889 (3/6)



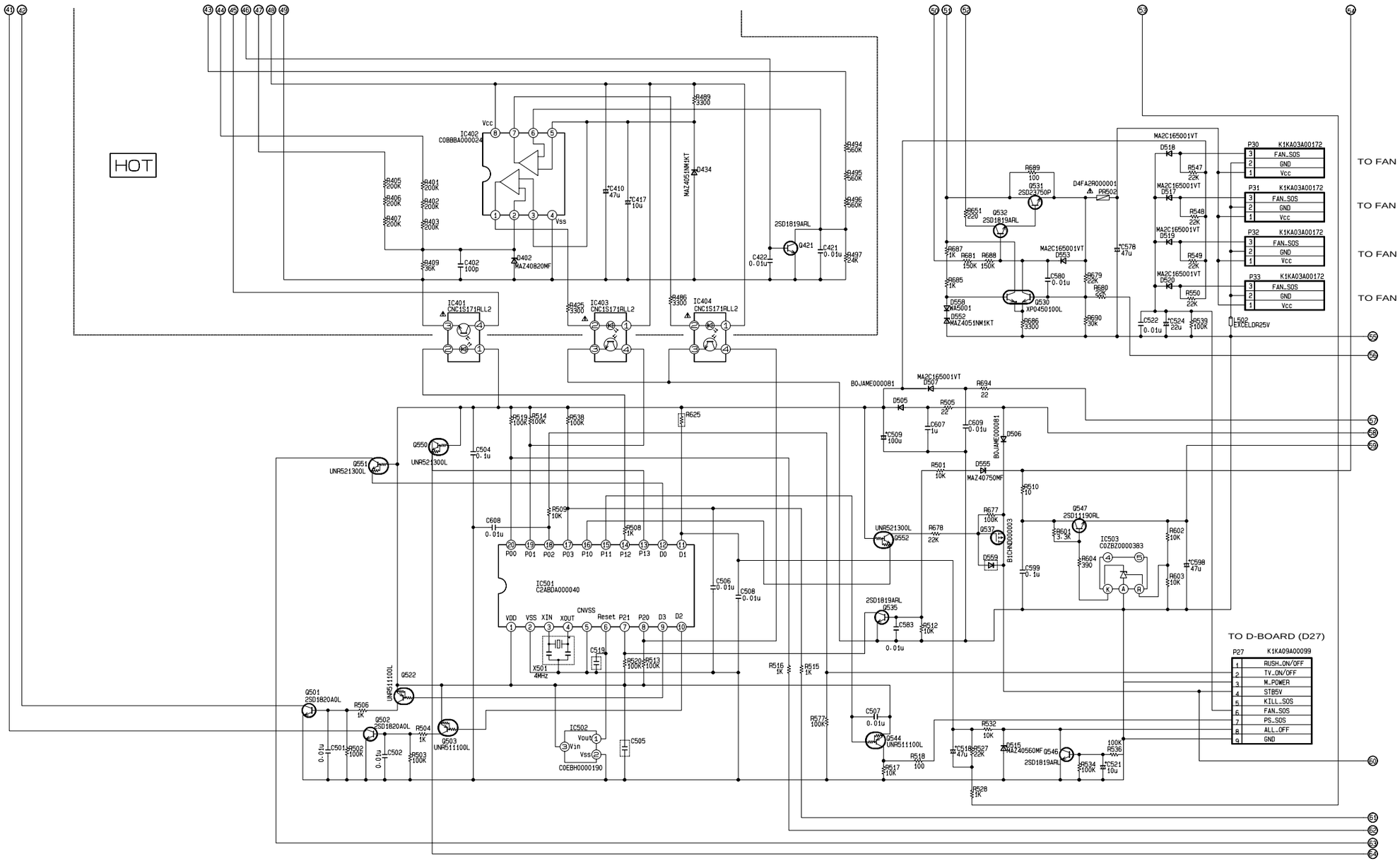
TH-42PHD6/TH-42PHW6
P-BOARD (3 of 6) Schematic Diagram

TH-42PHD6/TH-42PHW6
P-BOARD (3 of 6) and Schematic Diagram

P-BOARD TNPA2889 (4/6)



P-BOARD TNPA2889 (5/6)

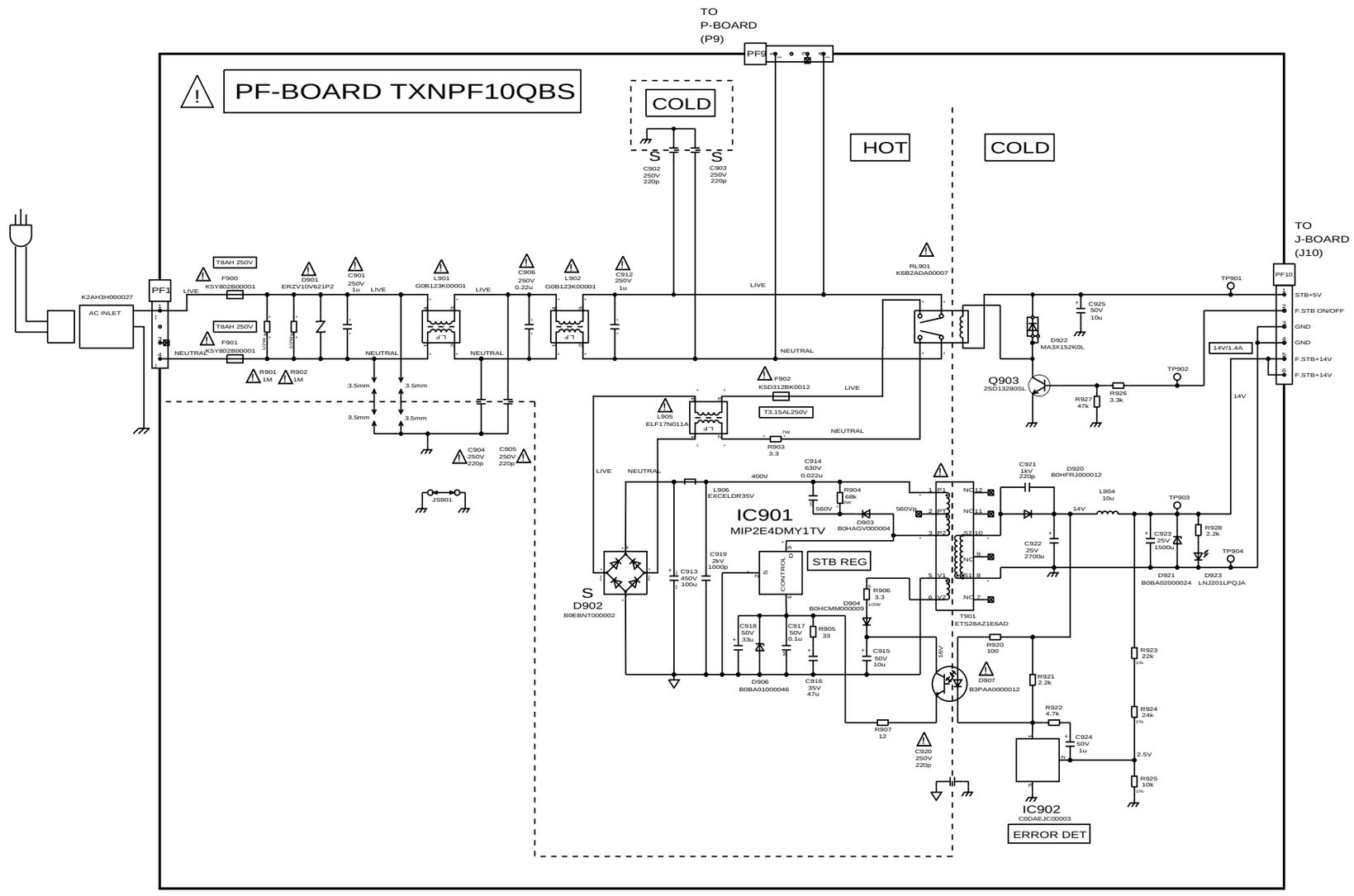


P-BOARD TNPA2889 (6/6)



TH-42PHD6/TH-42PHW6
P-BOARD (6 of 6) Schematic Diagram

8 9 10 11 12 13 14 15



TH-42PHD6/TH-42PHW6
PF-BOARD Schematic Diagram

TH-42PHD6/TH-42PHW6
PF-BOARD Schematic Diagram

SC-BOARD TXNSC10QJS (1/2)

TO P-BOARD (P2)

TO P-BOARD (P23)

TO D-BOARD (D20)

IC6602 C0ZBZ0000562 FET DRIVER

IC6601 C0ZBZ0000562 FET DRIVER

IC6603 C0ZBZ0000562 FET DRIVER

IC6606 C0JBAZ000005 BUFFER

IC6605 C0JBAZ000005 BUFFER

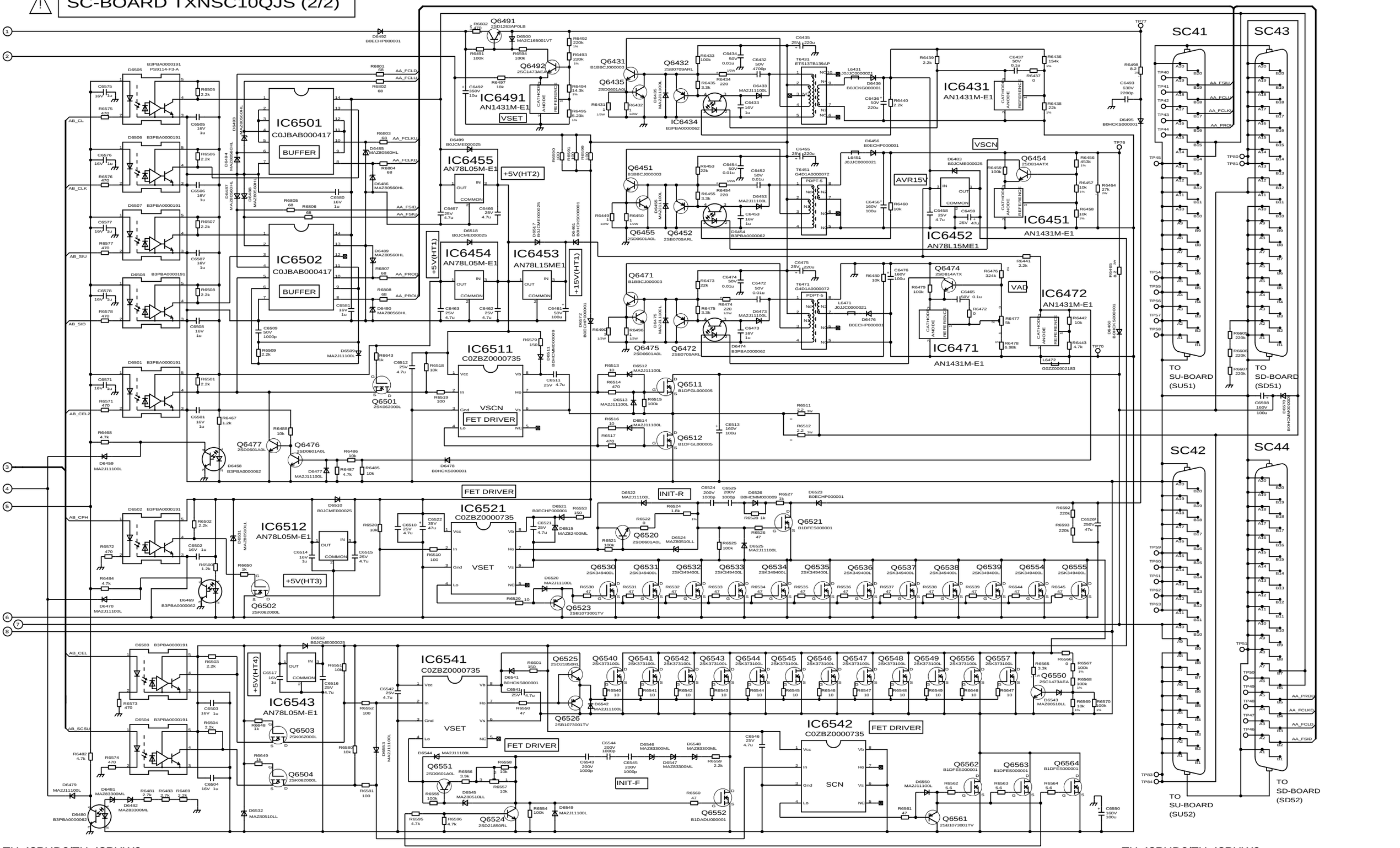
IC6604 C0JBAA000195 BUFFER

IC6581 C0BBBA000043 COMPARETER

Q6601 2SK3559000SQ
Q6602 2SK3559000SQ
Q6603 2SK3559000SQ
Q6604 2SK3559000SQ
Q6605 2SK3559000SQ
Q6606 2SK3559000SQ
Q6607 2SK3559000SQ
Q6608 2SK3559000SQ
Q6611 2SD21850RL
Q6612 2SB1073001TV
Q6613 2SD21850RL
Q6614 2SB1073001TV
Q6621 2SK3637000VE
Q6622 2SK3637000VE
Q6624 2SK3637000VE
Q6625 2SK3637000VE
Q6627 2SD21850RL
Q6628 2SB1073001TV
Q6629 2SD21850RL
Q6630 2SB1073001TV
Q6581 2SD0601A0L
Q6616 2SK062000L
Q6617 2SK062000L

TH-42PHD6/TH-42PHW6
SC-BOARD (1 of 2) Schematic Diagram

SC-BOARD TXNSC10QJS (2/2)

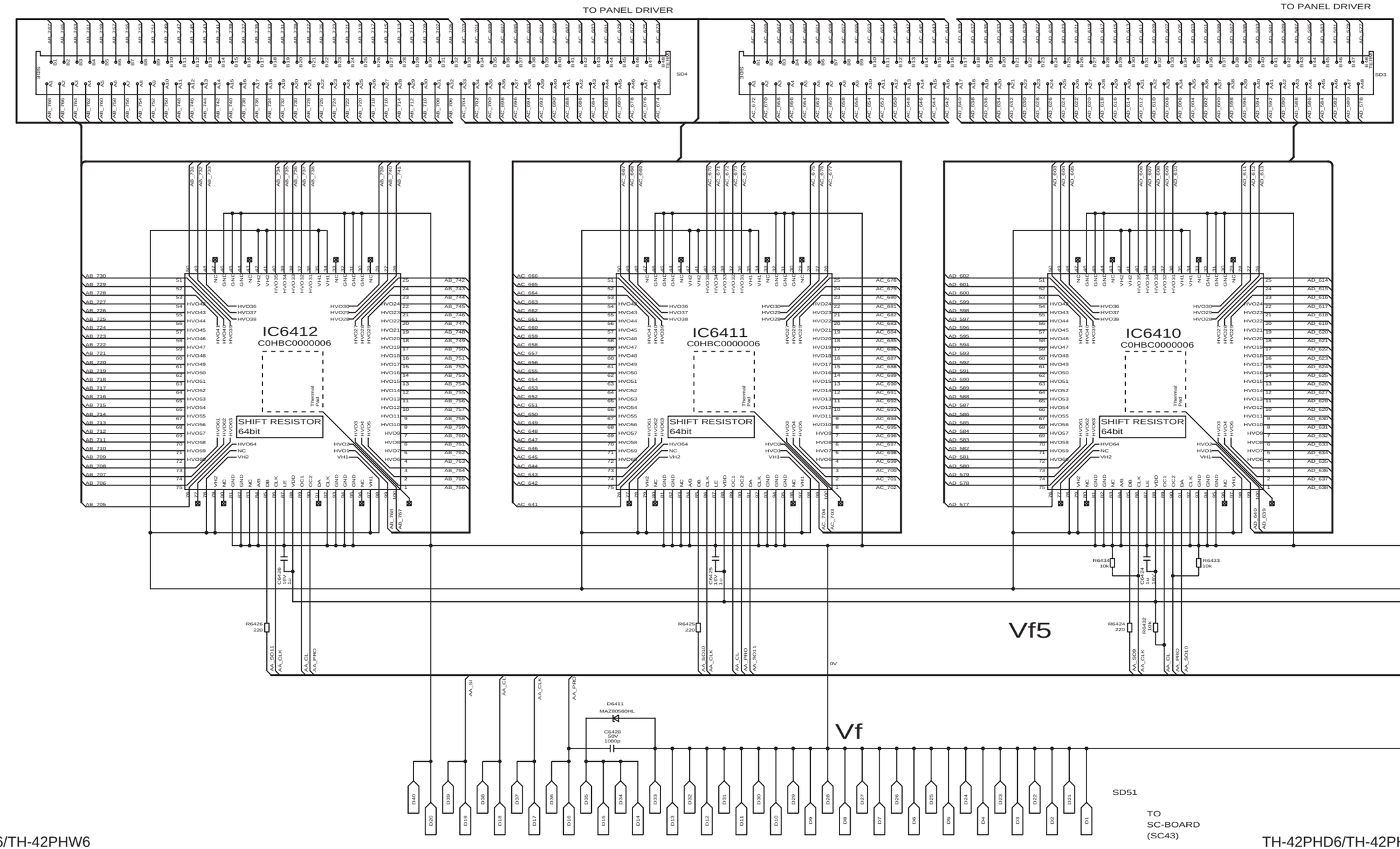


TH-42PHD6/TH-42PHW6
SC-BOARD (2 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
SC-BOARD (2 of 2) Schematic Diagram

⚠ SD-BOARD TNPA2910 (1/2)

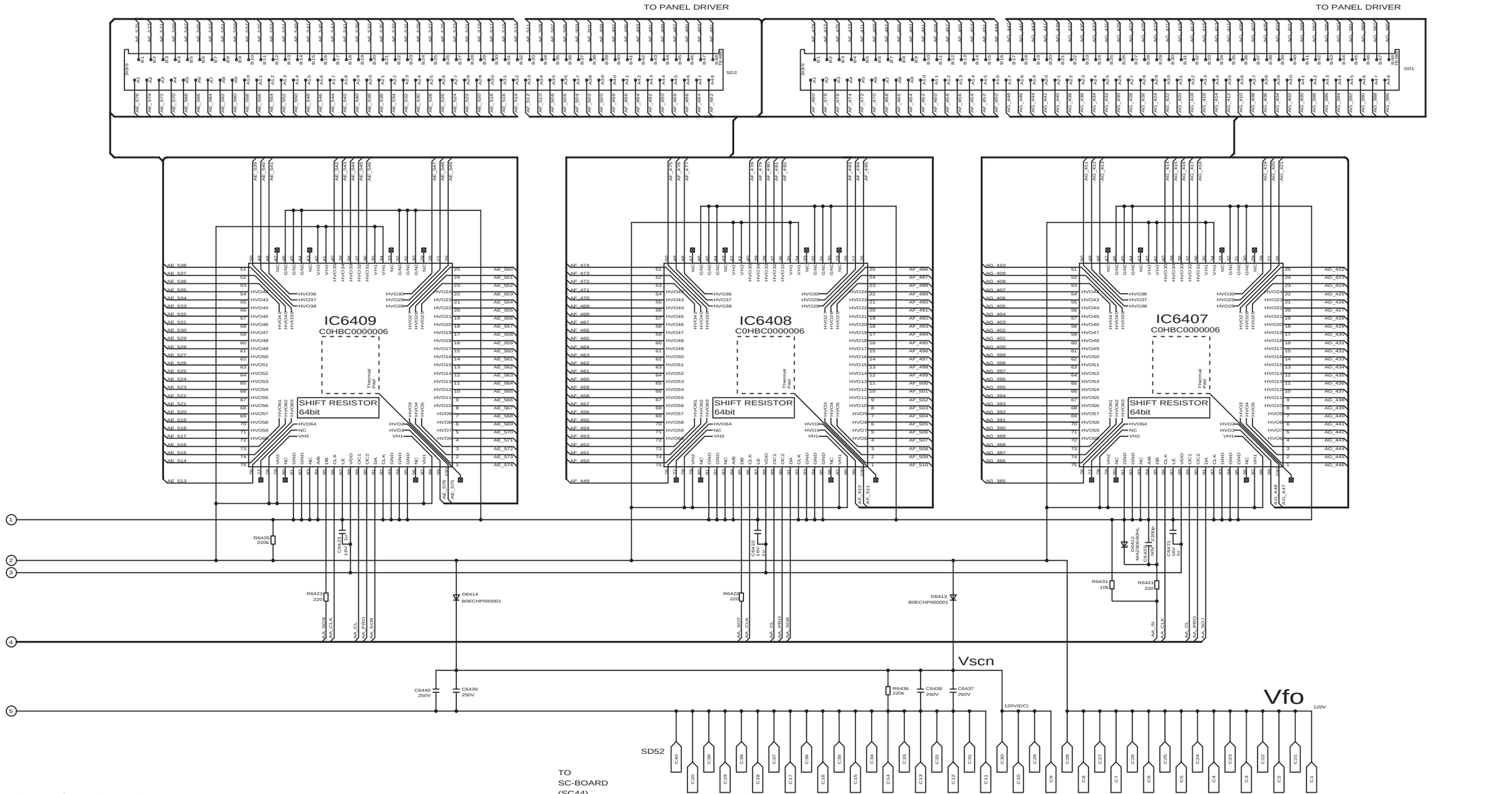
DOWN



TH-42PHD6/TH-42PHW6
SD-BOARD (1 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
SD-BOARD (1 of 2) Schematic Diagram

SD-BOARD TNPA2910 (2/2)



TH-42PHD6/TH-42PHW6
SD-BOARD (2 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6 SD-BOARD (2 of 2) Schematic Diagram

SS-BOARD TXNSS10QJS (1/2)

S1-BOARD
TNPA2868AB

TO P-BOARD (P11)

TO P-BOARD (P12)

TO C3-BOARD (C42)

TO C2-BOARD (C32)

FET DRIVER

IC6702
C0ZBZ0000562

IC6703
C0ZBZ0000562

IC6704
C0ZBZ0000562

IC6705
C0ZBZ0000735

IC6706
C0JBAZ000005

IC6707
C0BBBA000043

IC6709
AN1431M-E1

IC6701
C0ZBZ0000562

USH

USL

Vsus

Ve

Ve2

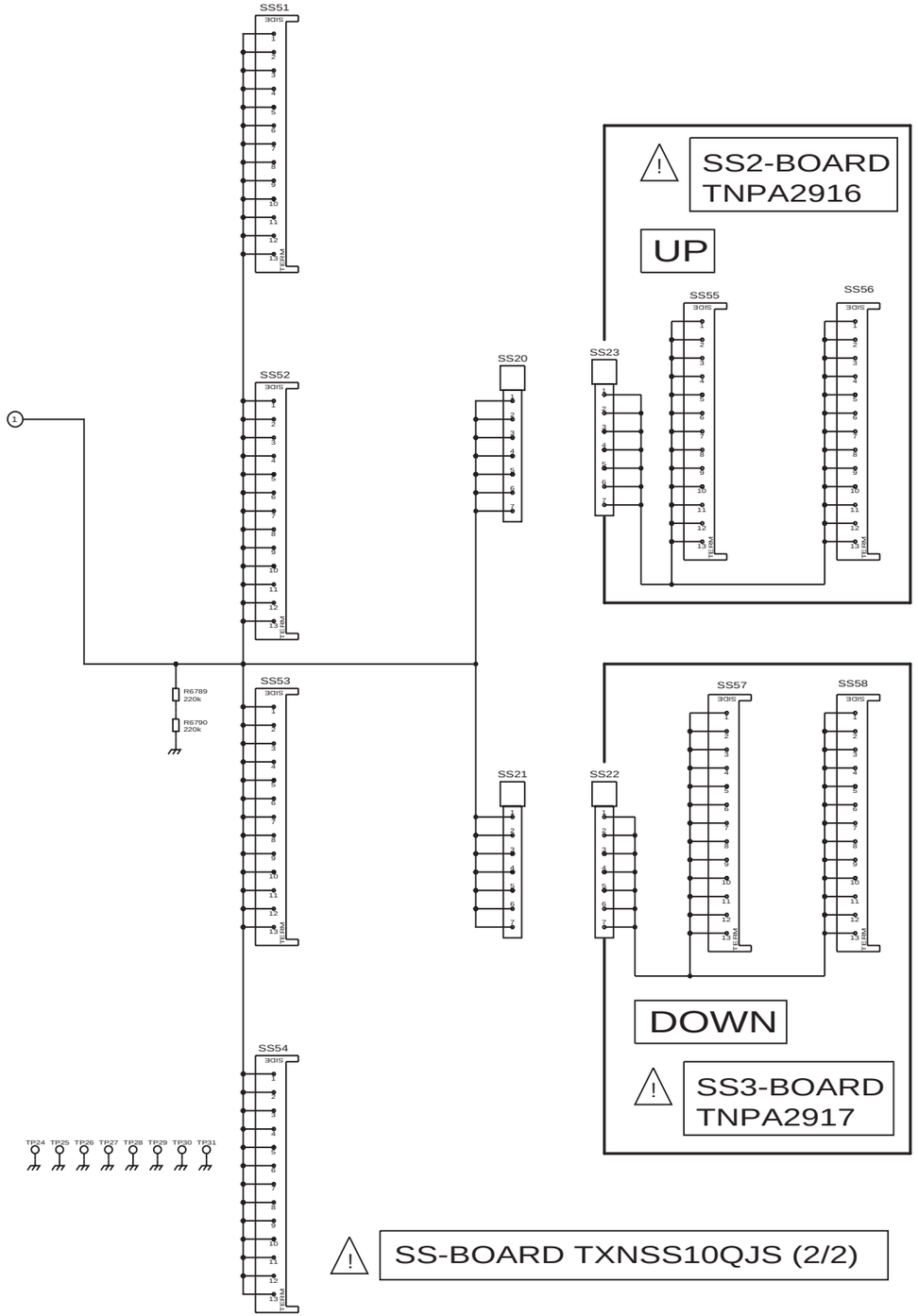
BUFFER

COMPARETER
ERROR DET

VE GENERATOR

TH-42PHD6/TH-42PHW6
SS-BOARD (1 of 2) and S1-BOARD Schematic Diagram

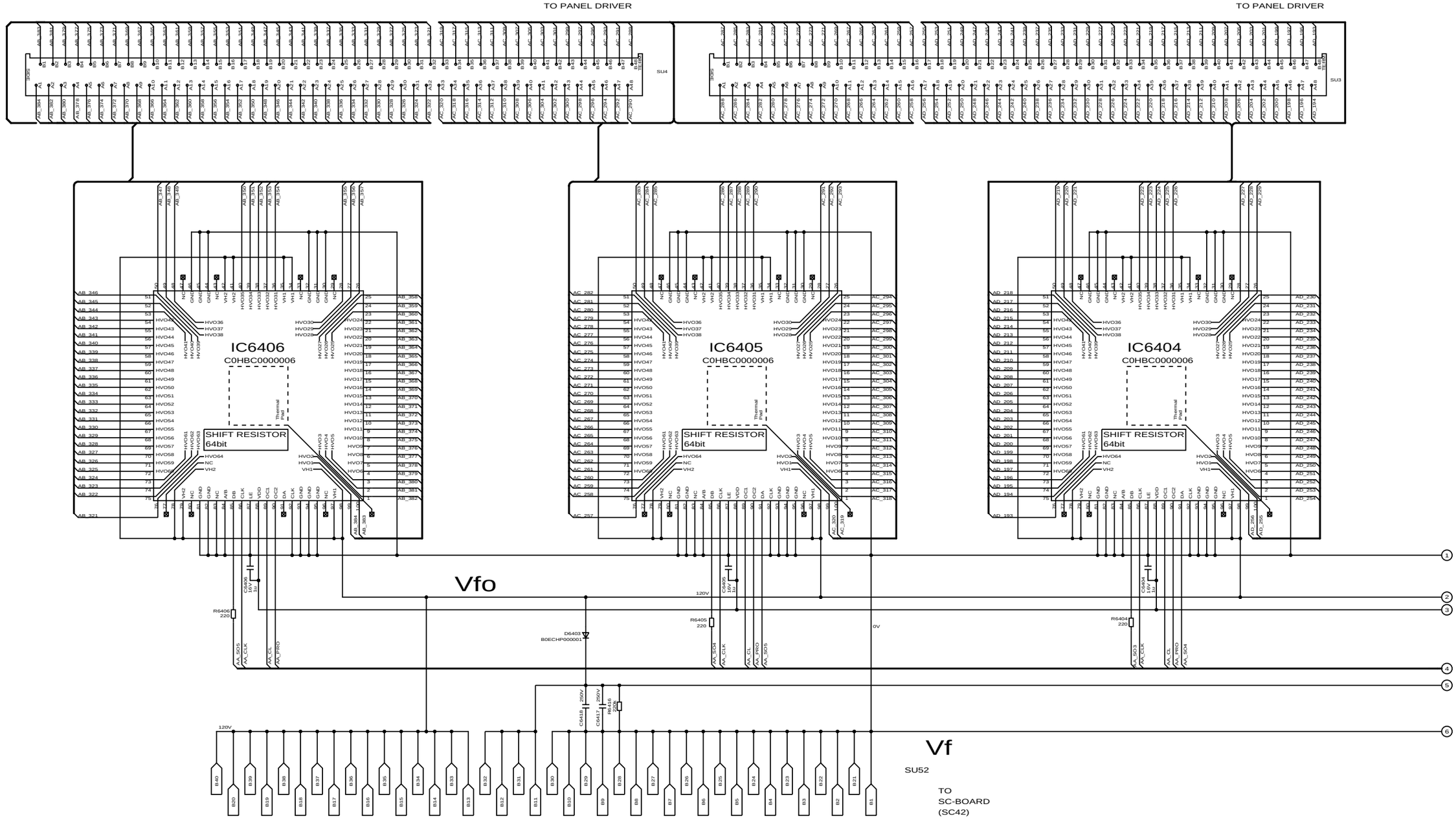
TH-42PHD6/TH-42PHW6 SS-BOARD (1 of 2) and S1-BOARD Schematic Diagram



TH-42PHD6/TH-42PHW6
SS-BOARD (2 of 2), SS2-BOARD, and SS3-BOARD Schematic Diagram

TH-42PHD6/TH-42PHW6
SS-BOARD (2 of 2), SS2-BOARD, and SS3-BOARD Schematic Diagram

SU-BOARD TNPA2909 (1/2)



TH-42PHD6/TH-42PHW6
SU-BOARD (1 of 2) Schematic Diagram

SU-BOARD TNPA2909 (2/2)

UP

TO PANEL DRIVER

TO PANEL DRIVER

SU2

SU1

IC6403
C0HBC0000006

IC6402
C0HBC0000006

IC6401
C0HBC0000006

SHIFT RESISTOR
64bit

Thermal Pad

Vf5

5V

D6404
B0ECHP000001

D6401
MAZ80560HL

D6402
MAZ80560HL

C6420
250V

C6419
250V

C6408
50V
1000p

C6403
16V
1u

C6402
16V
1u

C6401
16V
1u

C6407
50V
2200p

R6415
220k

R6414
10k

R6413
10k

R6403
220

R6412
10k

R6402
220

R6411
10k

R6401
220

SU51

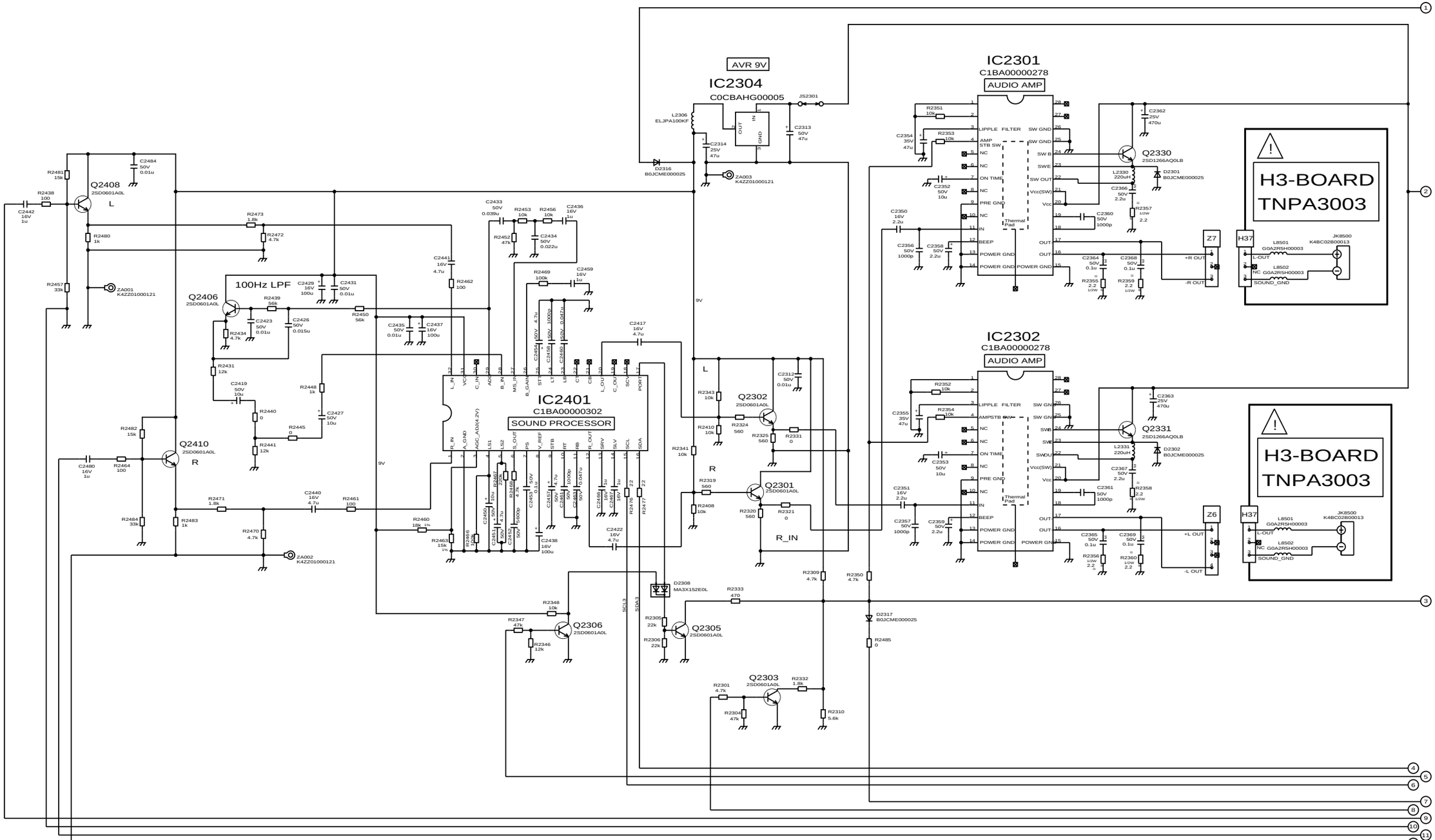
TO
SC-BOARD
(SC41)

VF5V
VF5V
PRO
FCLK
FCL
FSI

TH-42PHD6/TH-42PHW6
SU-BOARD (2 of 2) Schematic Diagram

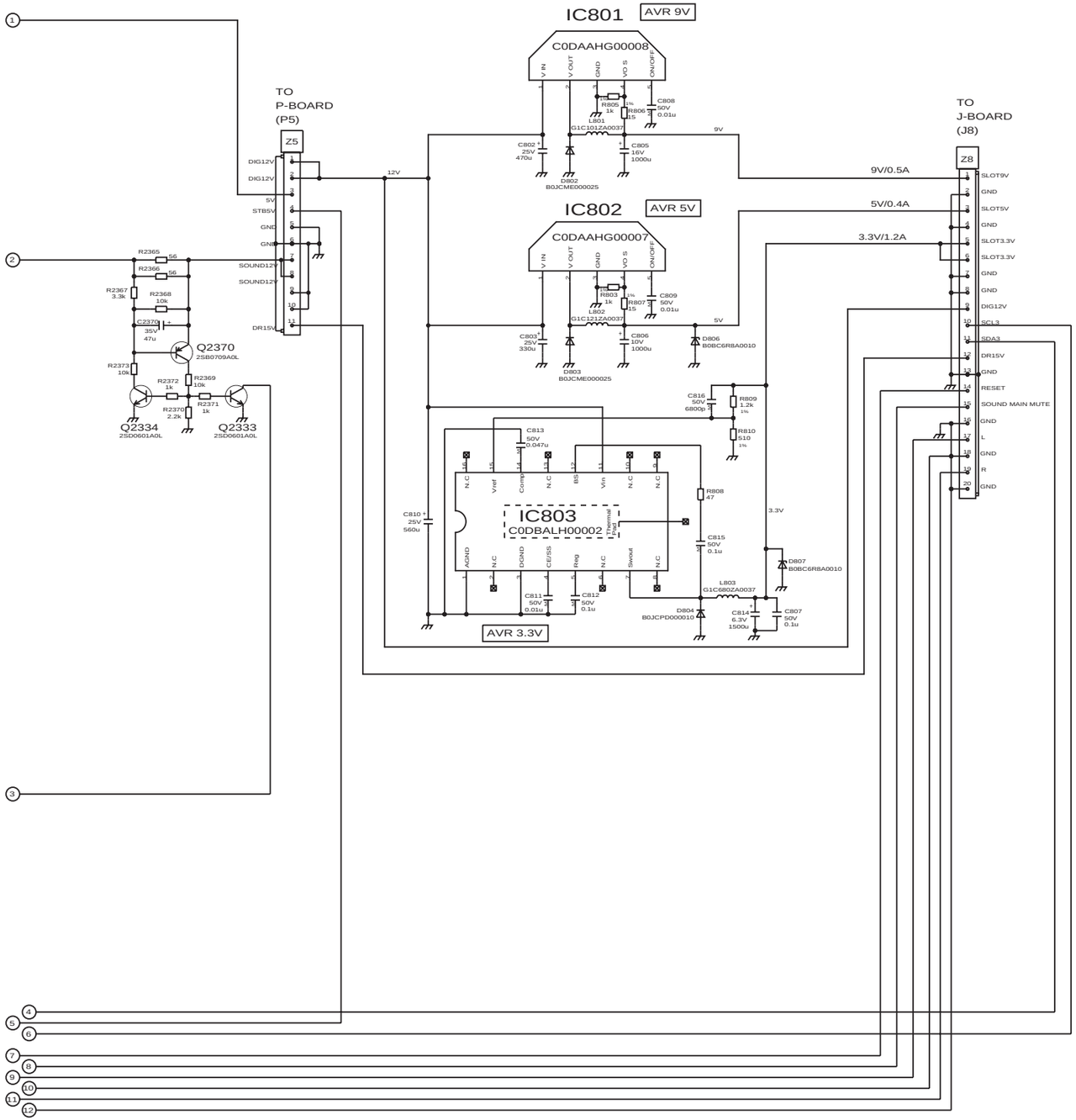
TH-42PHD6/TH-42PHW6
SU-BOARD (2 of 2) Schematic Diagram

Z-BOARD TNPA2815 (1/2)



TH-42PHD6/TH-42PHW6
Z-BOARD (1 of 2) and H3-BOARD Schematic Diagram

Z-BOARD TNPA2815 (2/2)



TH-42PHD6/TH-42PHW6
Z-BOARD (2 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
Z-BOARD (2 of 2) Schematic Diagram

14 Schematic Diagrams

14.1. Schematic Diagram Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

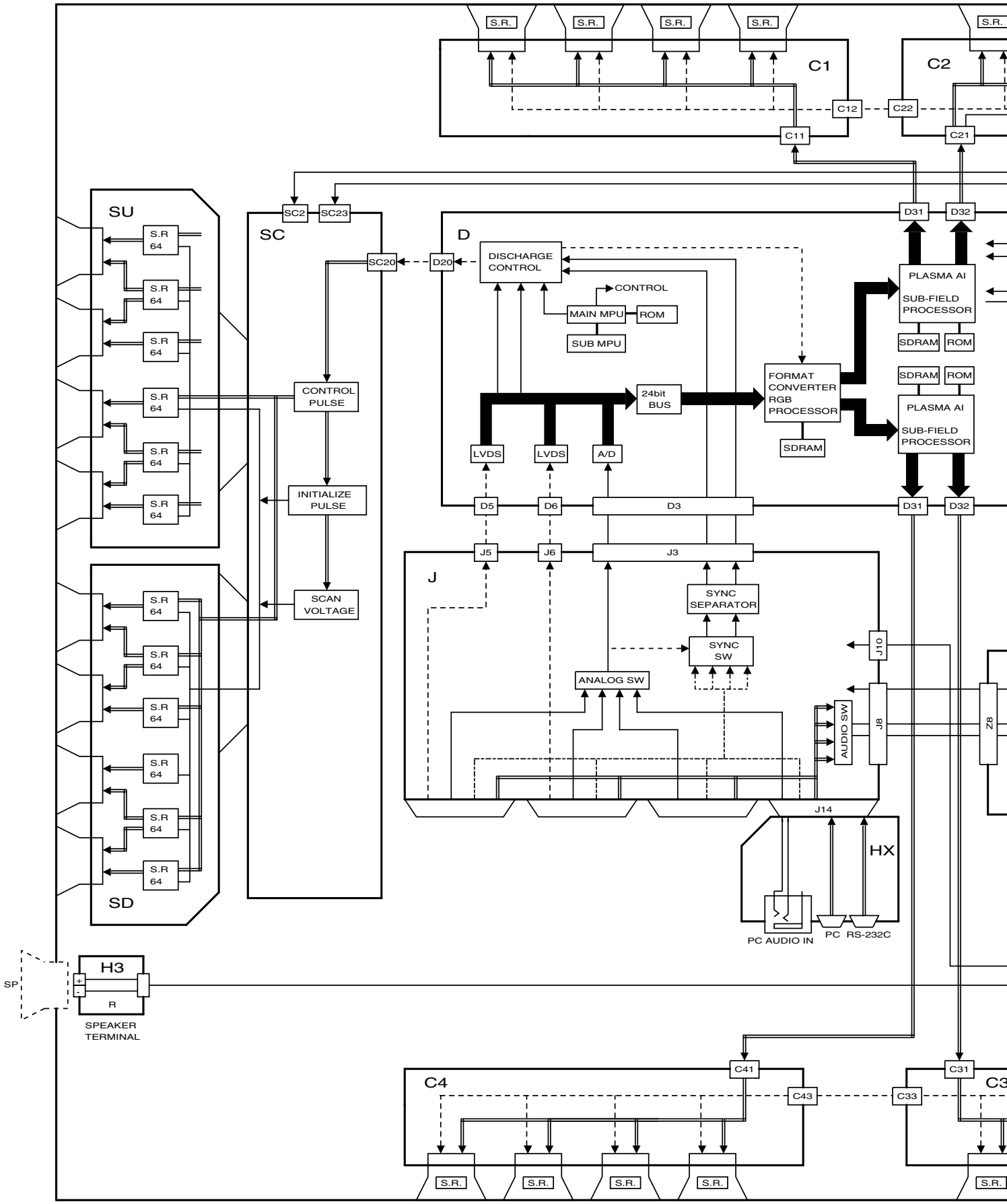
Notes:

1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [ ] (K=1,000, M=1,000,000).
   - ◯ : Nonflammable
   - △ : Solid
   - ▨ : Wire Wound
   - ⊠ : Metal Oxide
   - ◎ : Metal Film
   - ⊗ : Fuse**:**
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is F, unless otherwise noted.
   - ⊗ : Temperature Compensation
   - Ⓜ : Polyester
   - ⓜ : Metalized Polyester
   - ⊠ : Polypropylene
   -  : Electrolytic
   -  : Bipolar
   - Ⓣ : Dipped Tantalum
   - Ⓩ : Z-Type
3. Coil
   Unit of inductance is F, unless otherwise noted.
4. Test Point
   - ⚲ : Test Point position
5. Earth Symbol
   - ⏚ : Chassis Earth (Cold)
   - ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source .....AC 120V, 50/60Hz (UY VERSION model)/ AC220-240V, 50/60Hz (Except UY VERSION)
   Receiving Signal ..... Colour Bar signal (RF)
   All customer's controls ..... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

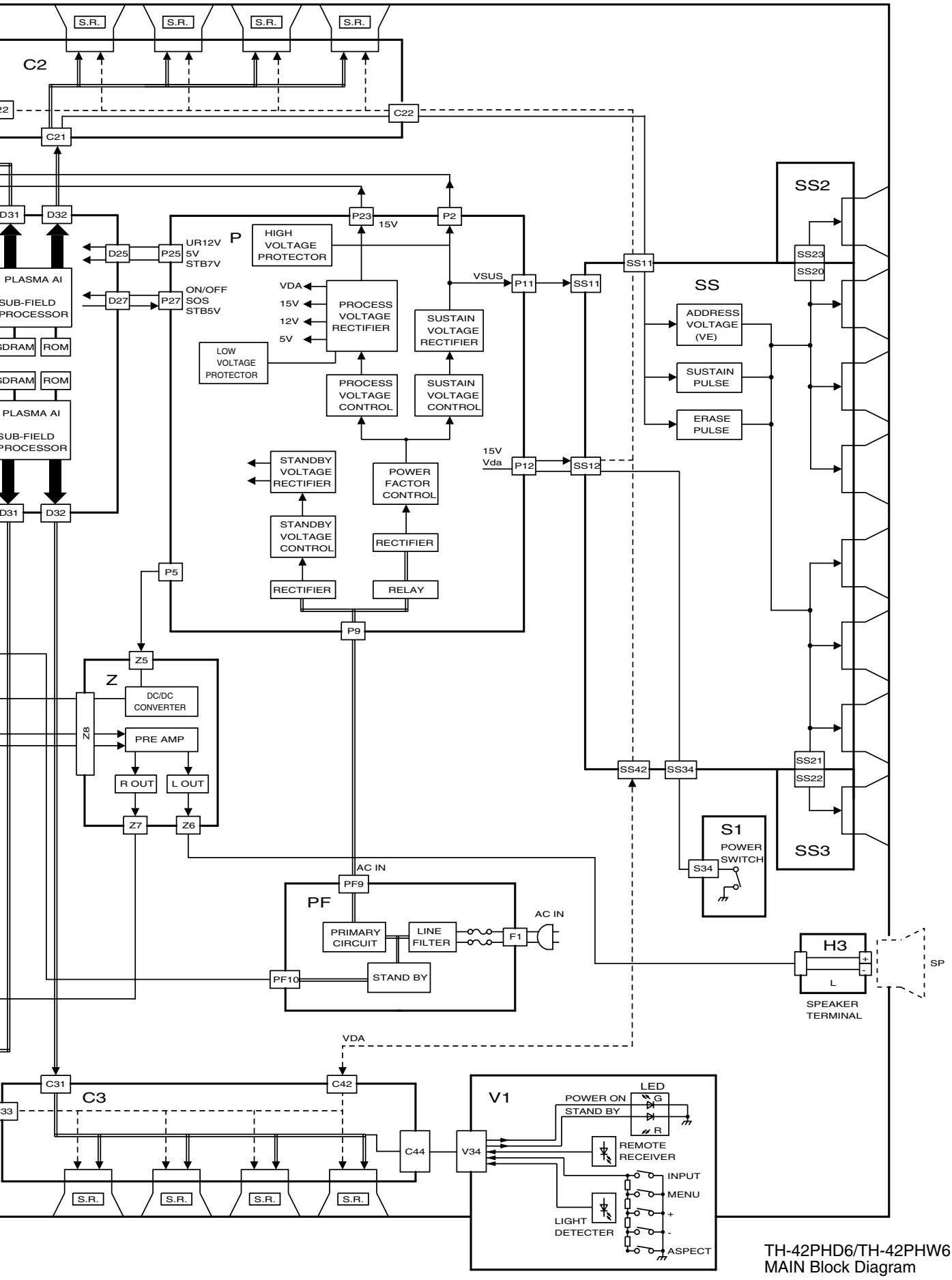
Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
      Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

14.2. Main Block Diagram

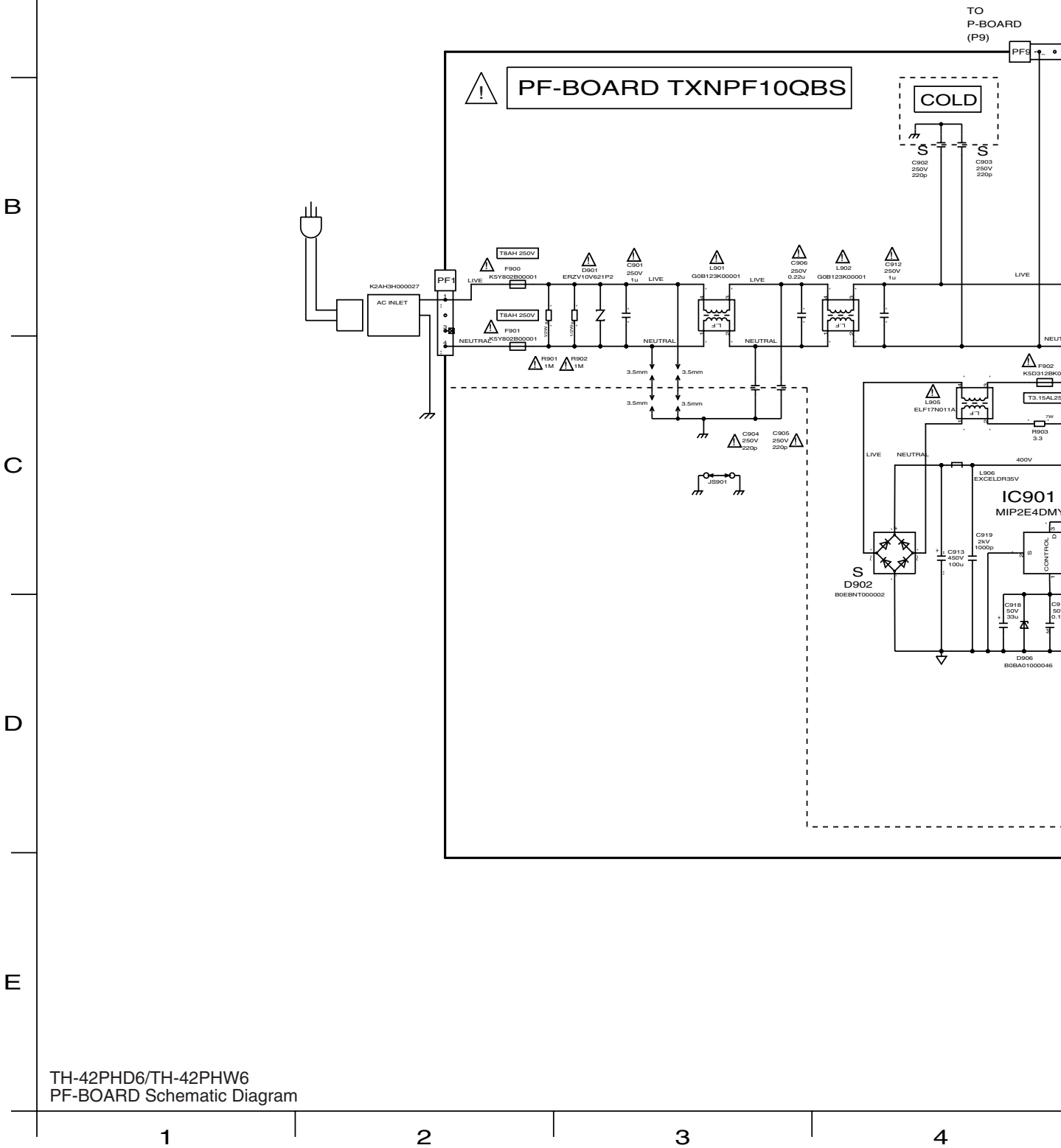


TH-42PHD6/TH-42PHW6
MAIN Block Diagram

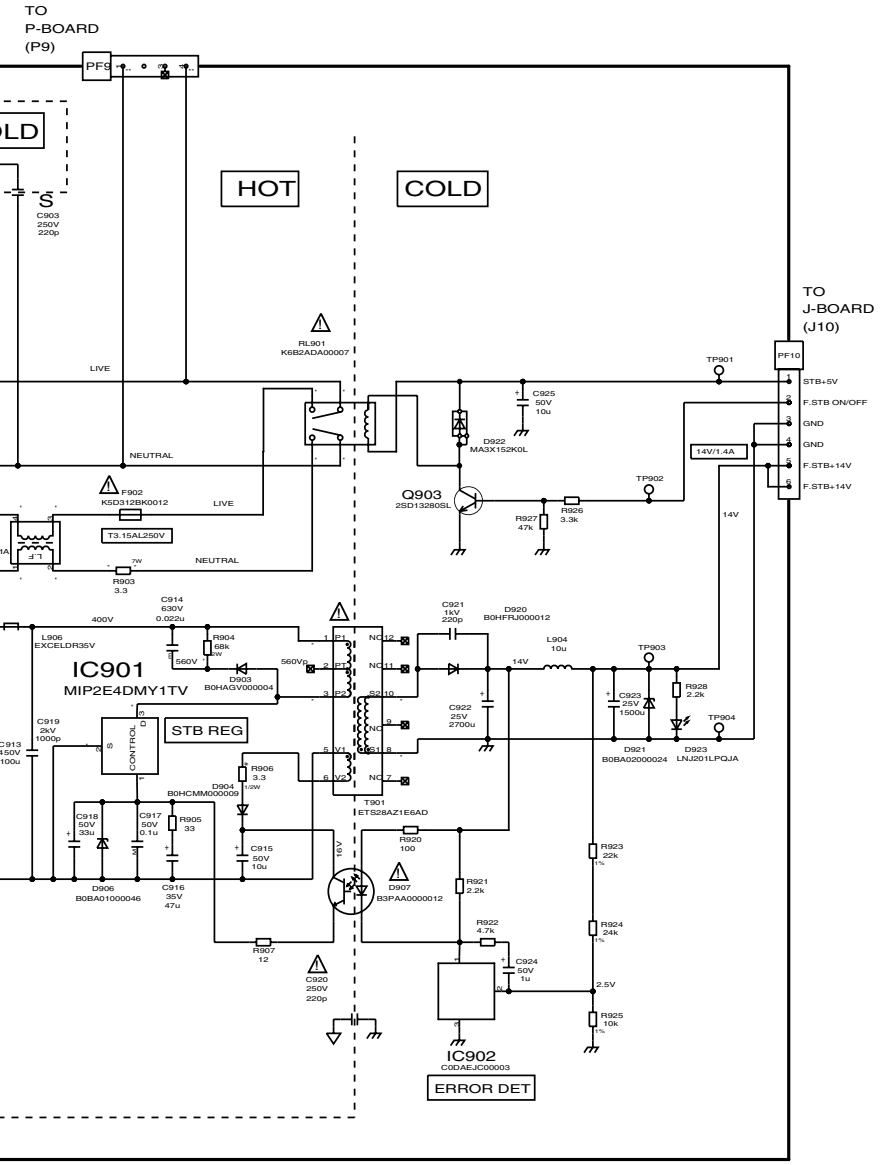


TH-42PHD6/TH-42PHW6
MAIN Block Diagram

14.3. PF-Board Schematic Diagram



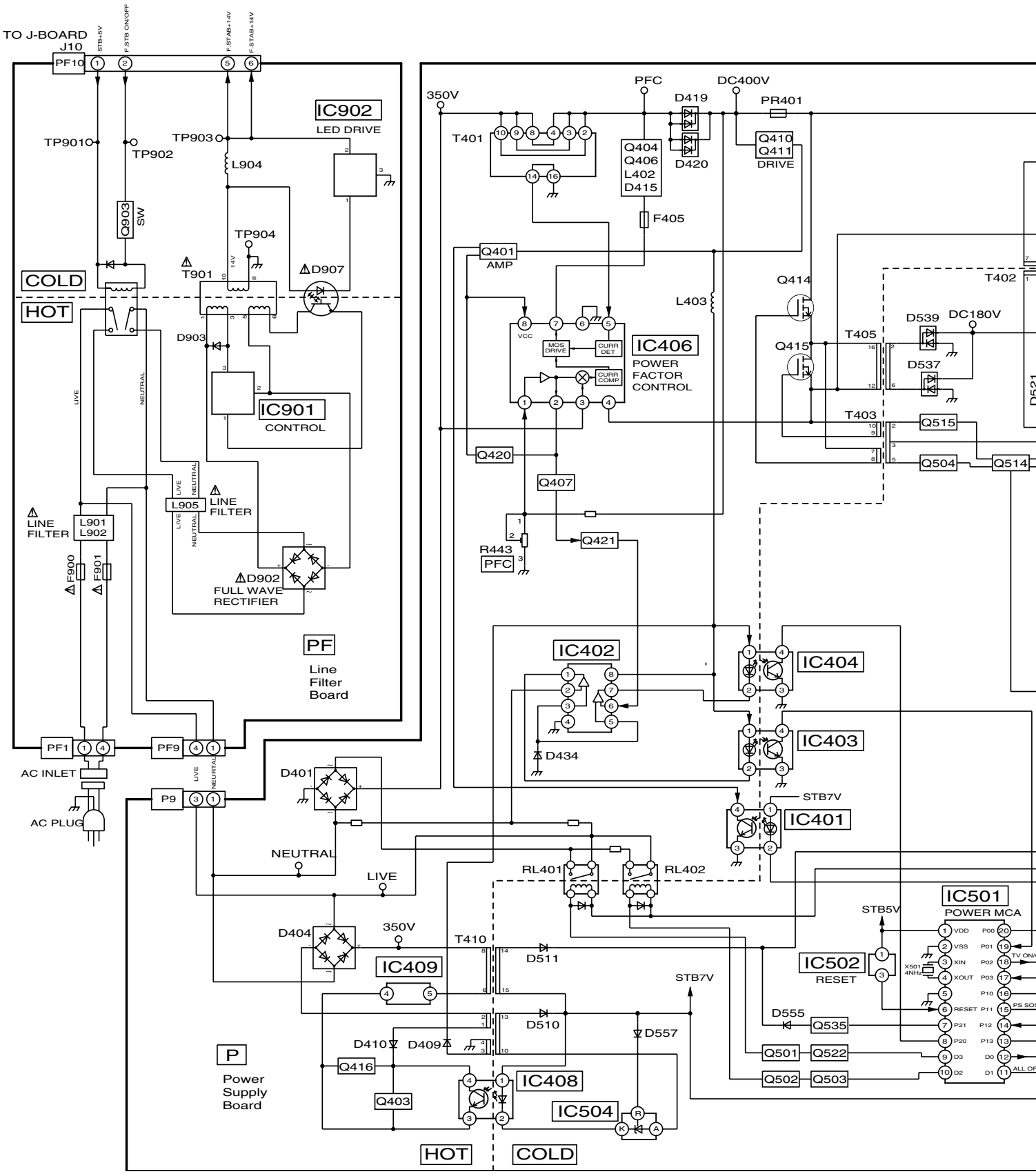
TH-42PHD6/TH-42PHW6
PF-BOARD Schematic Diagram



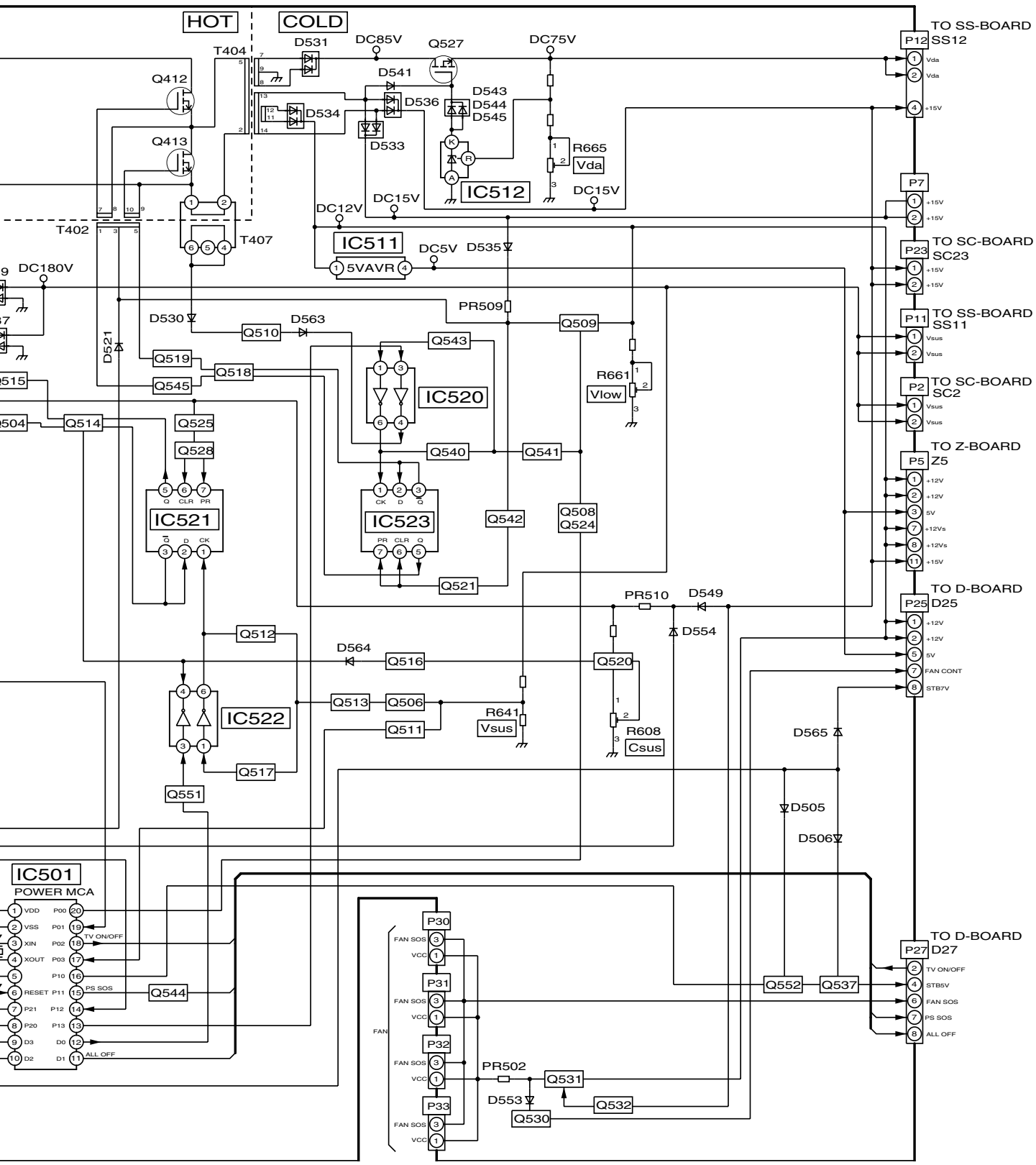
TH-42PHD6/TH-42PHW6
PF-BOARD Schematic Diagram

5 6 7 8

14.4. Power Block Diagram

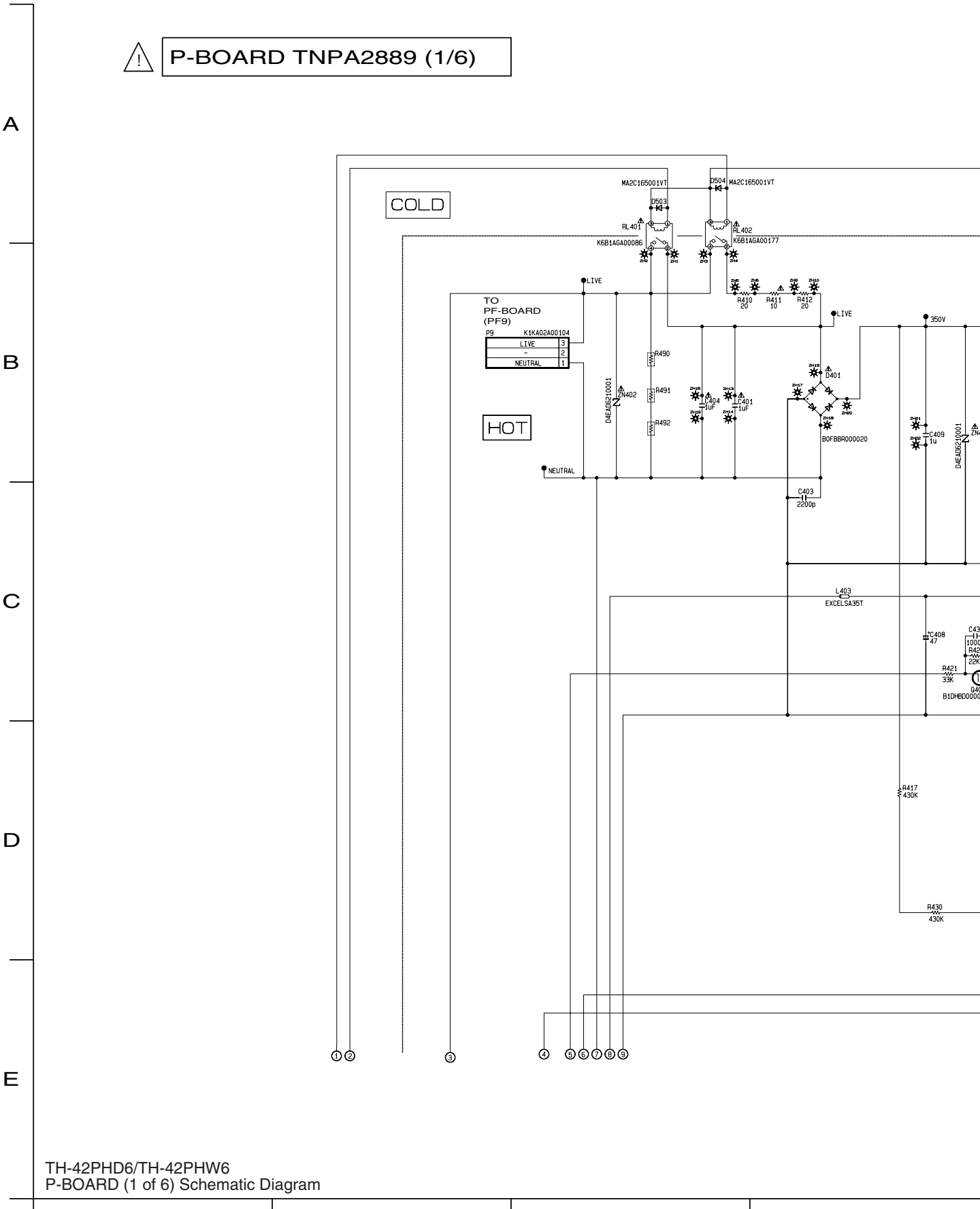


TH-42PHD6/TH-42PHW6
POWER Block Diagram

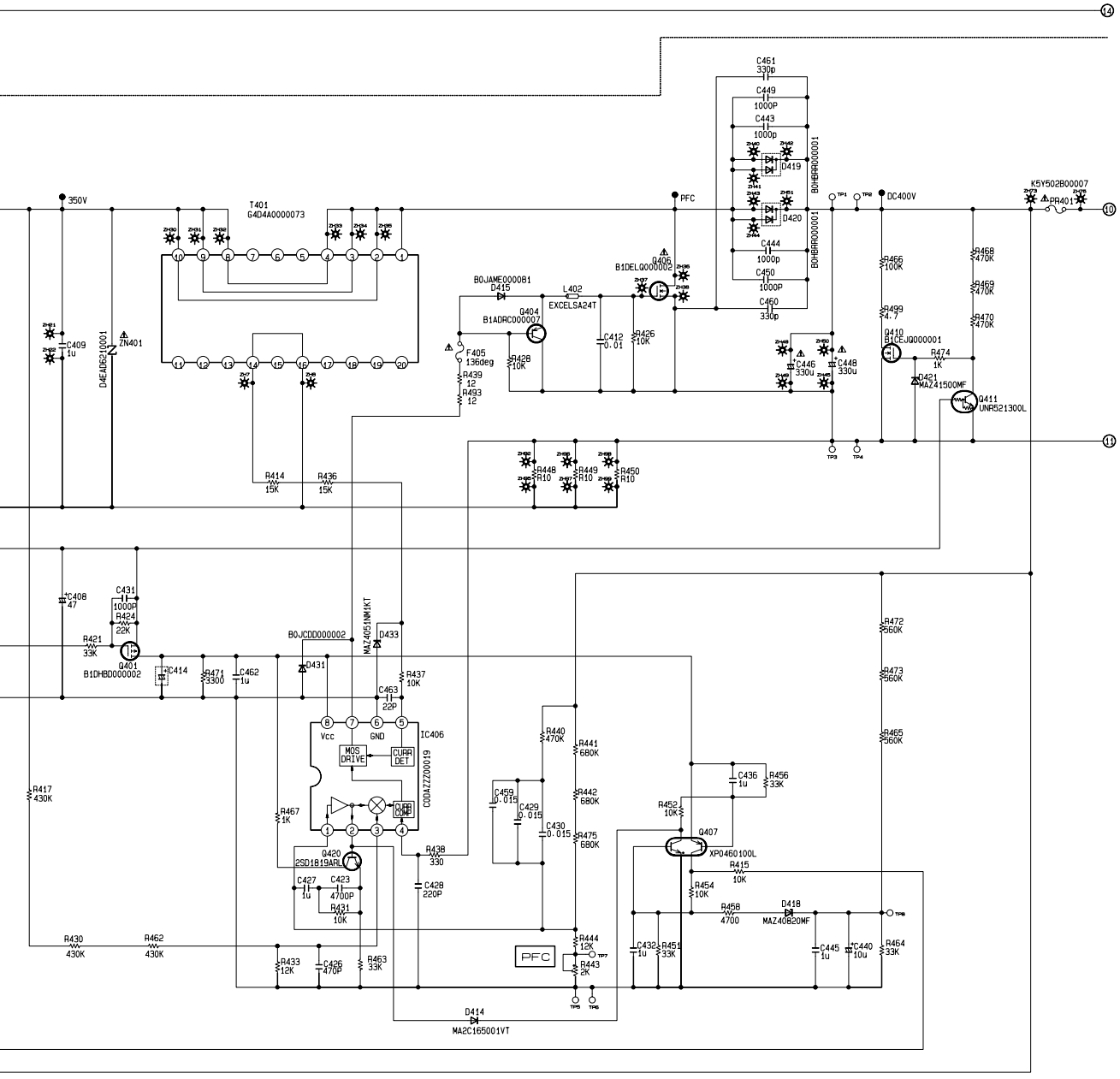


TH-42PHD6/TH-42PHW6
POWER Block Diagram

14.5. P-Board (1 of 6) Schematic Diagram



TH-42PHD6/TH-42PHW6
P-BOARD (1 of 6) Schematic Diagram

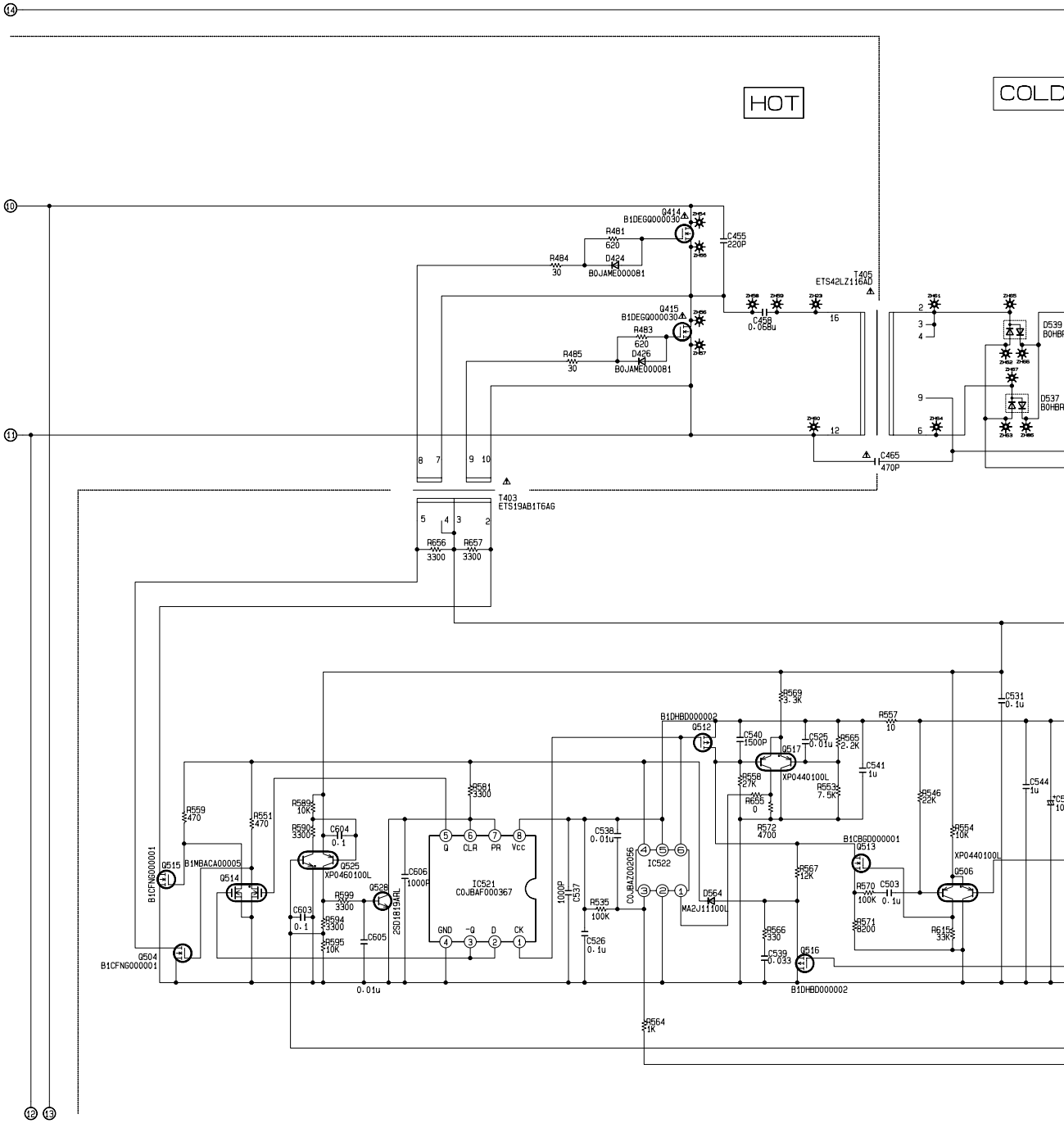


TH-42PHD6/TH-42PHW6
P-BOARD (1 of 6) and Schematic Diagram

5 6 7 8

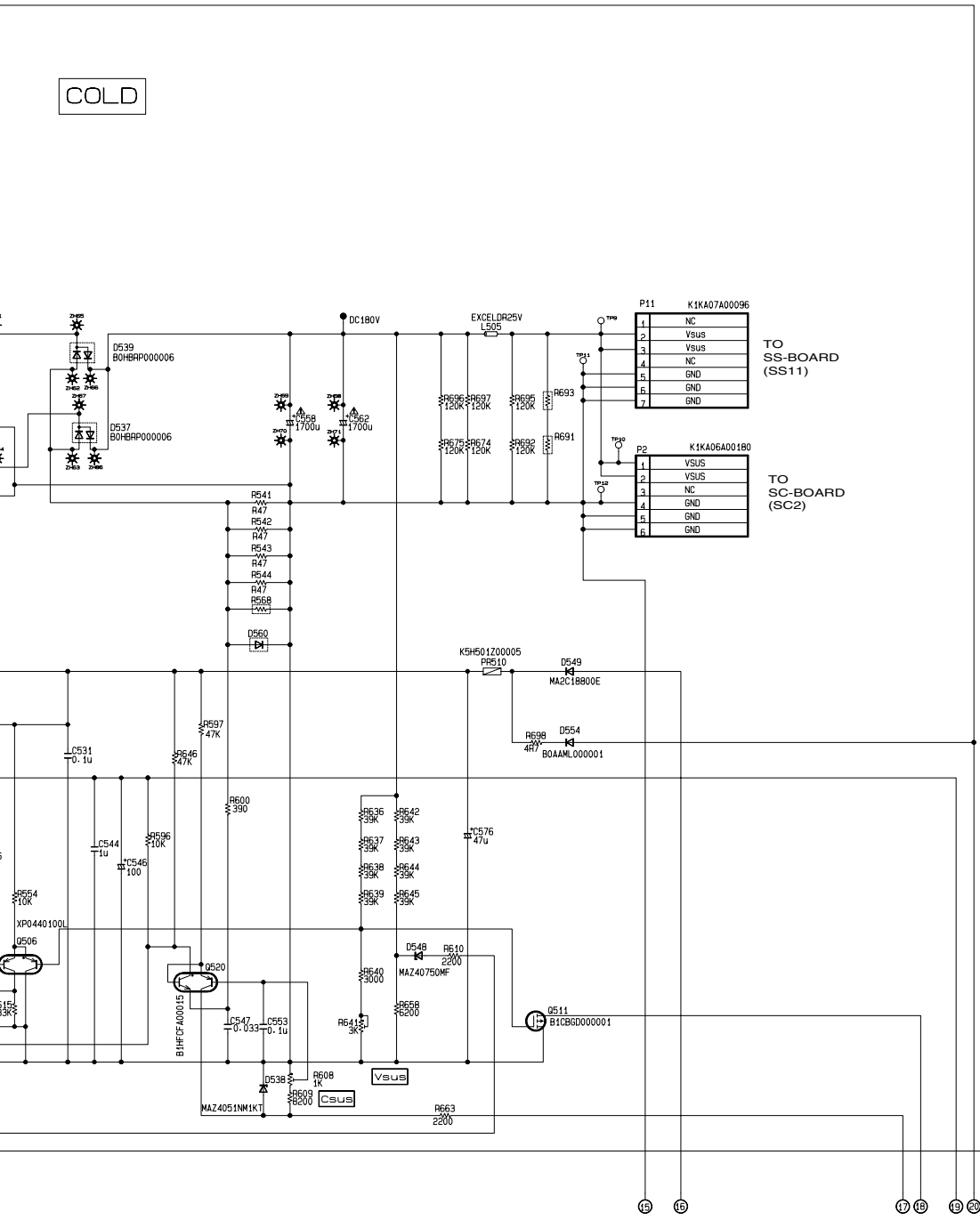
14.6. P-Board (2 of 6) Schematic Diagram

⚠ P-BOARD TNPA2889 (2/6)



TH-42PHD6/TH-42PHW6
P-BOARD (2 of 6) Schematic Diagram

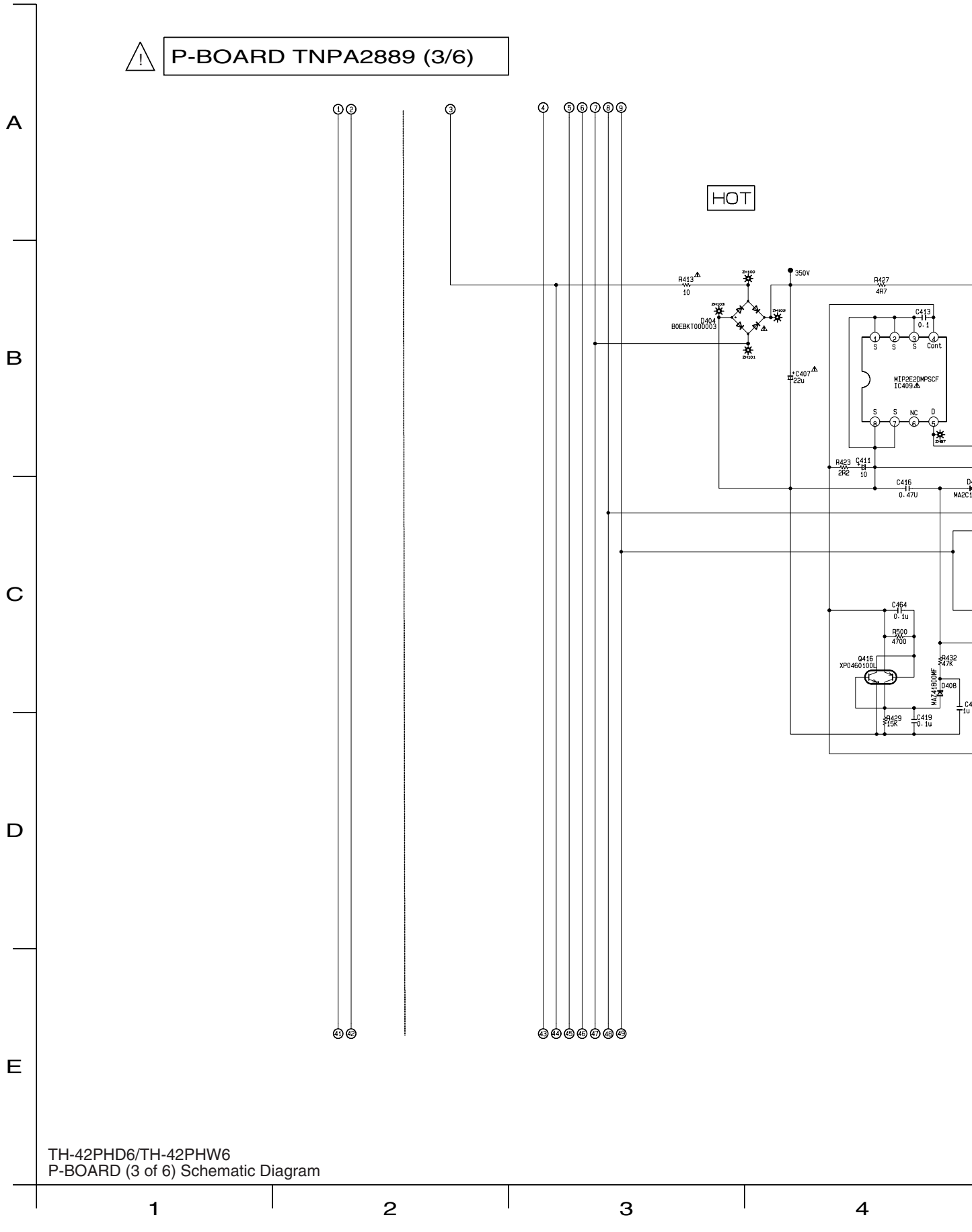
8	9	10	11	12



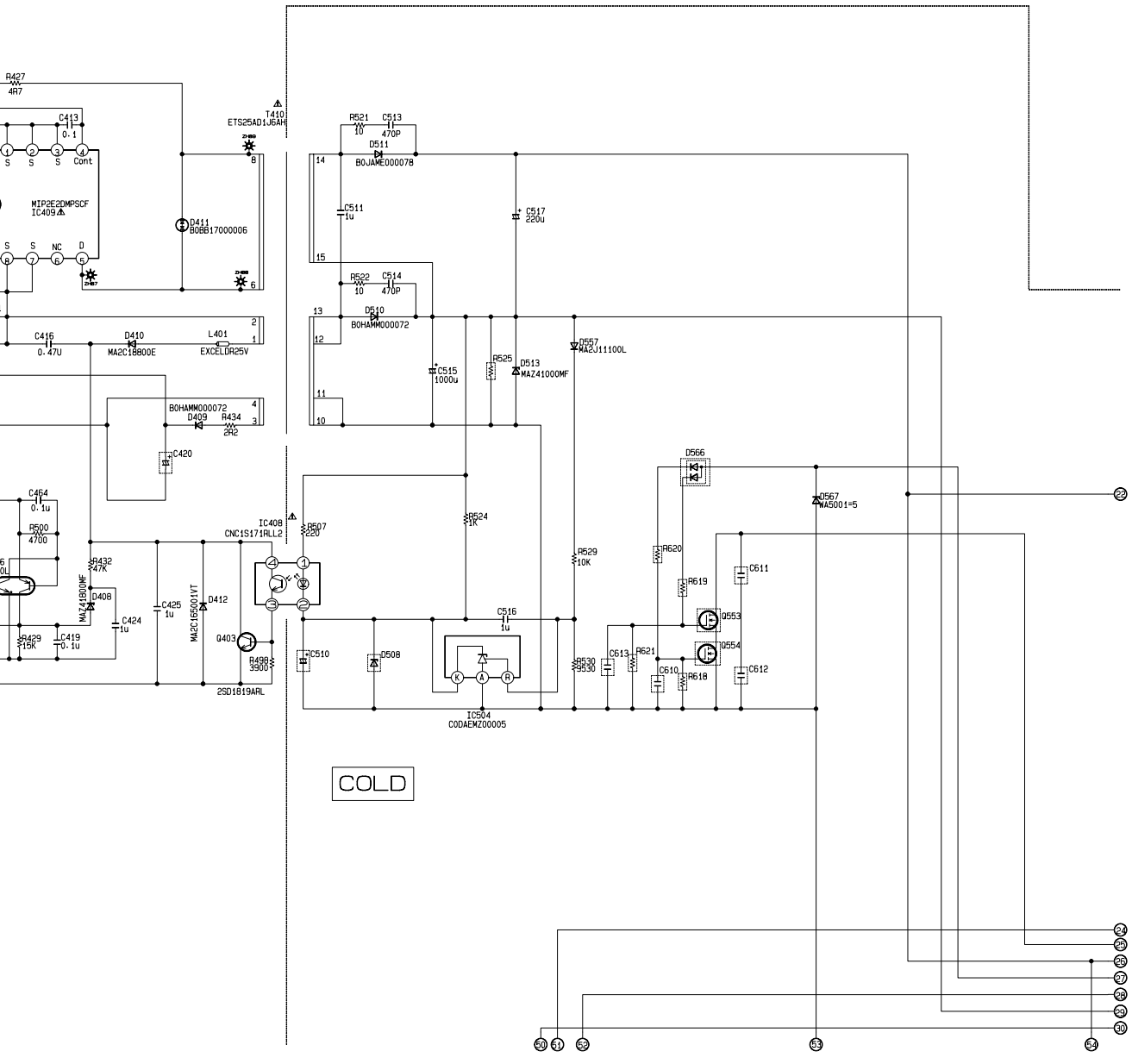
TH-42PHD6/TH-42PHW6
P-BOARD (2 of 6) Schematic Diagram

12 13 14 15

14.7. P-Board (3 of 6) Schematic Diagram



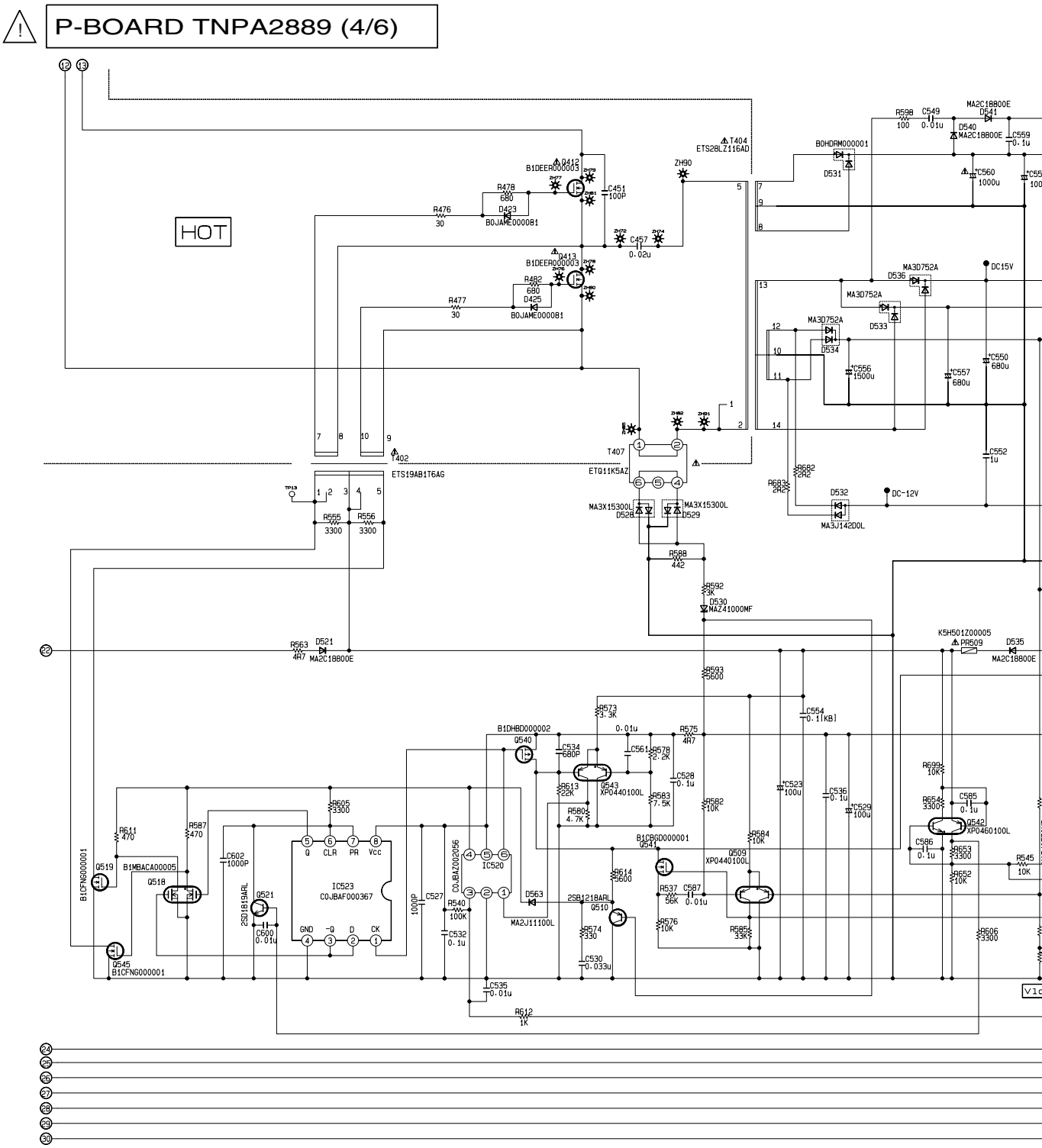
TH-42PHD6/TH-42PHW6
P-BOARD (3 of 6) Schematic Diagram

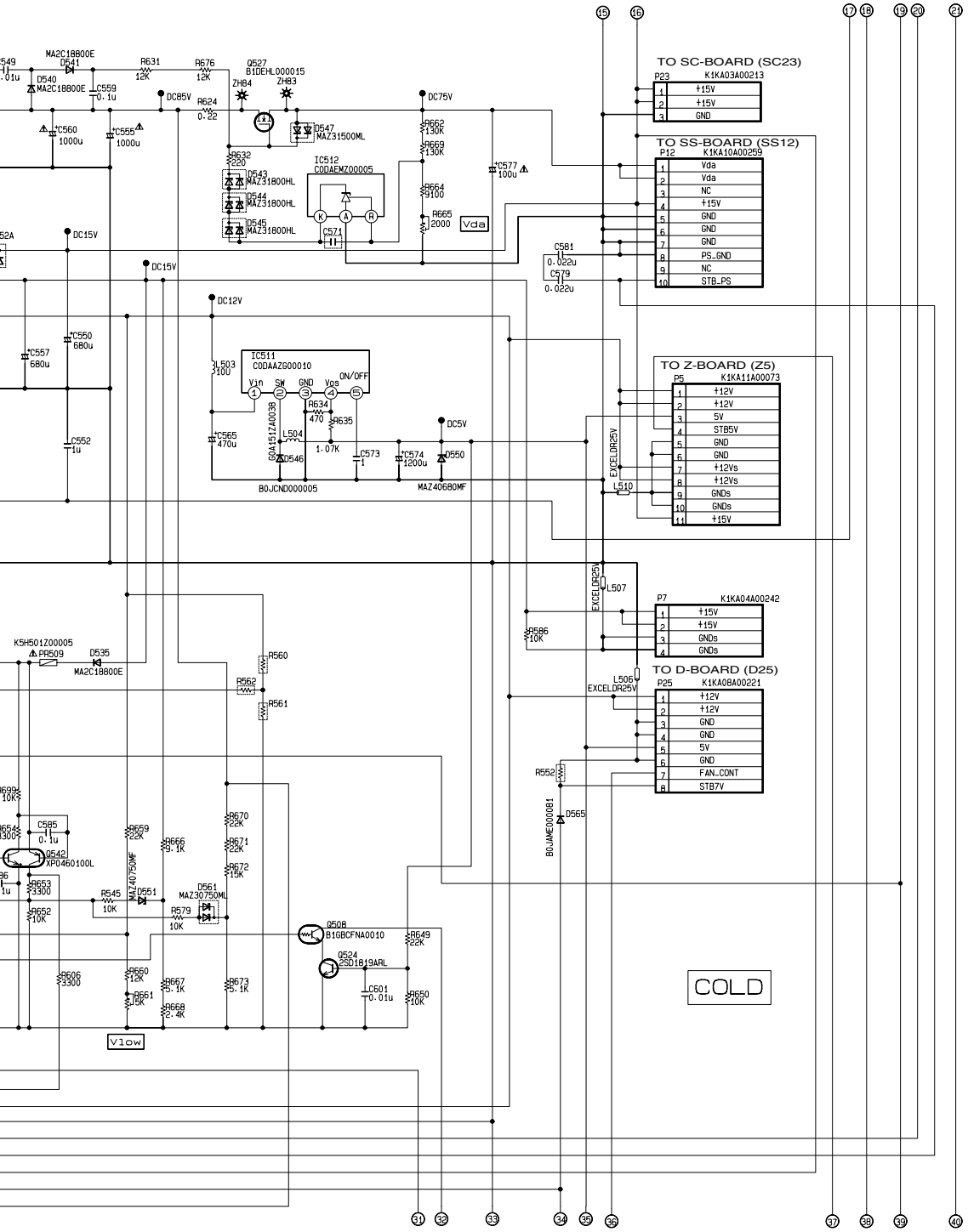


TH-42PHD6/TH-42PHW6
P-BOARD (3 of 6) and Schematic Diagram

5 6 7 8

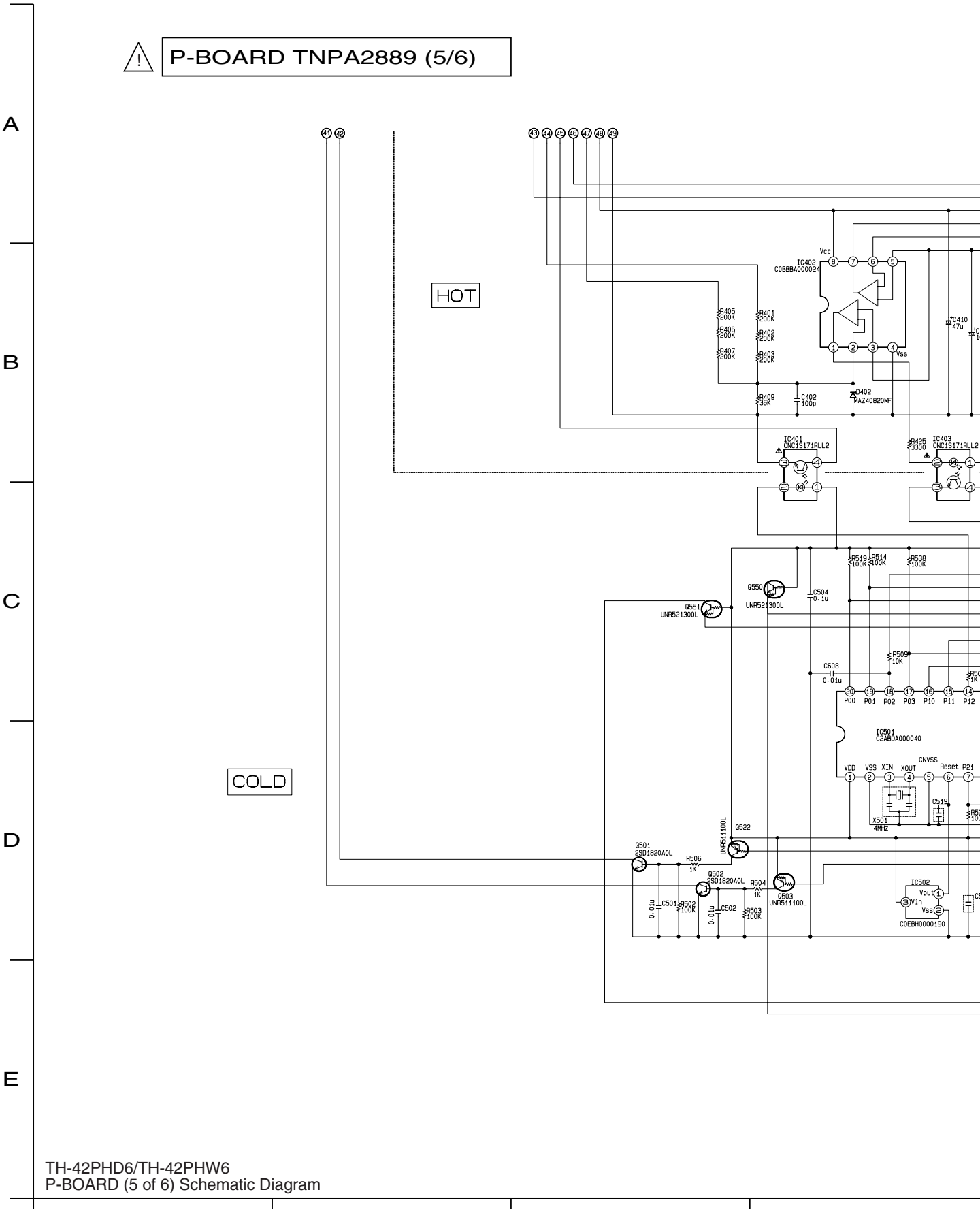
14.8. P-Board (4 of 6) Schematic Diagram



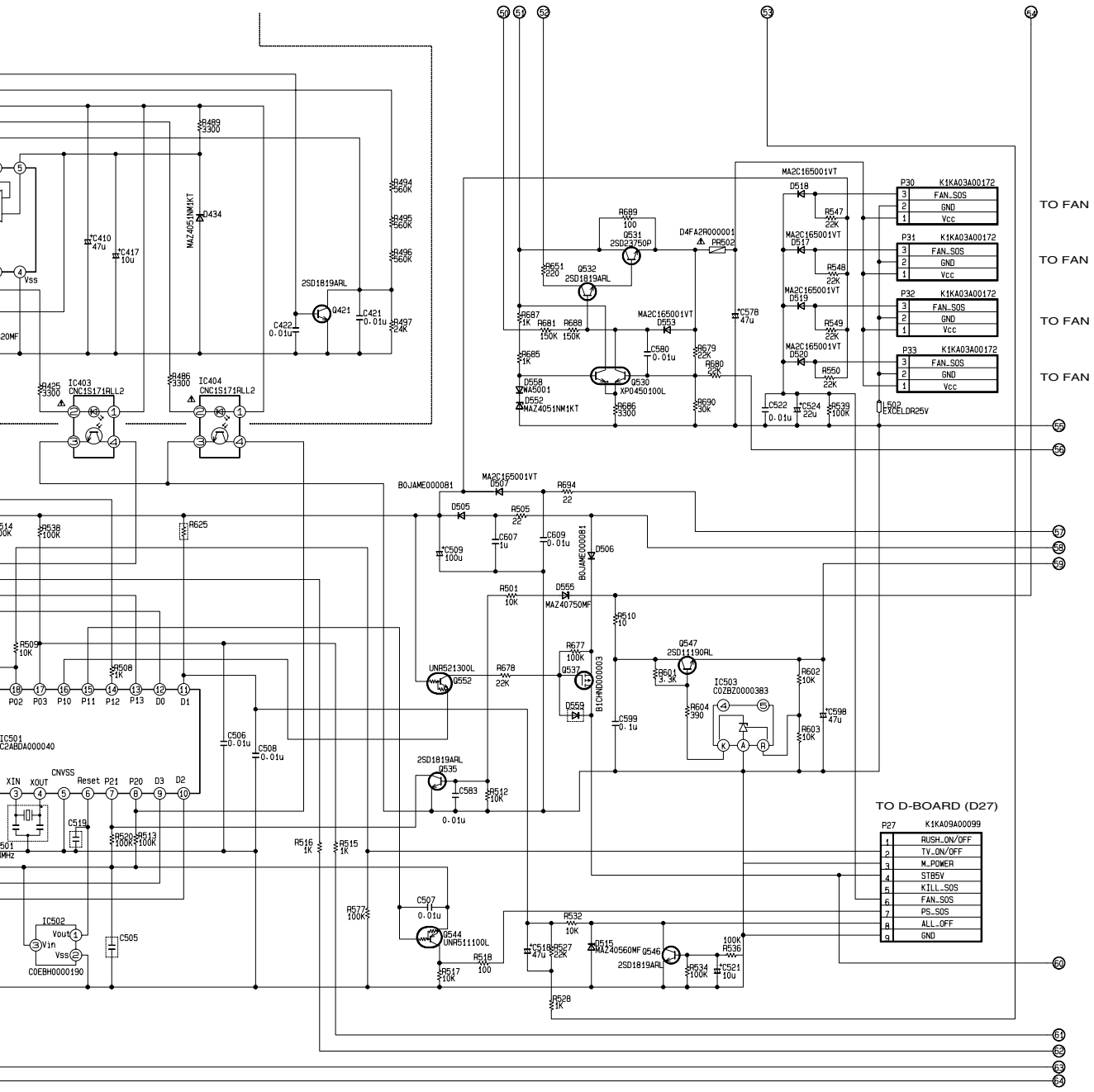


TH-42PHD6/TH-42PHW6
P-BOARD (4 of 6) Schematic Diagram

14.9. P-Board (5 of 6) Schematic Diagram



TH-42PHD6/TH-42PHW6
P-BOARD (5 of 6) Schematic Diagram



TH-42PHD6/TH-42PHW6
P-BOARD (5 of 6) and Schematic Diagram

5 6 7 8

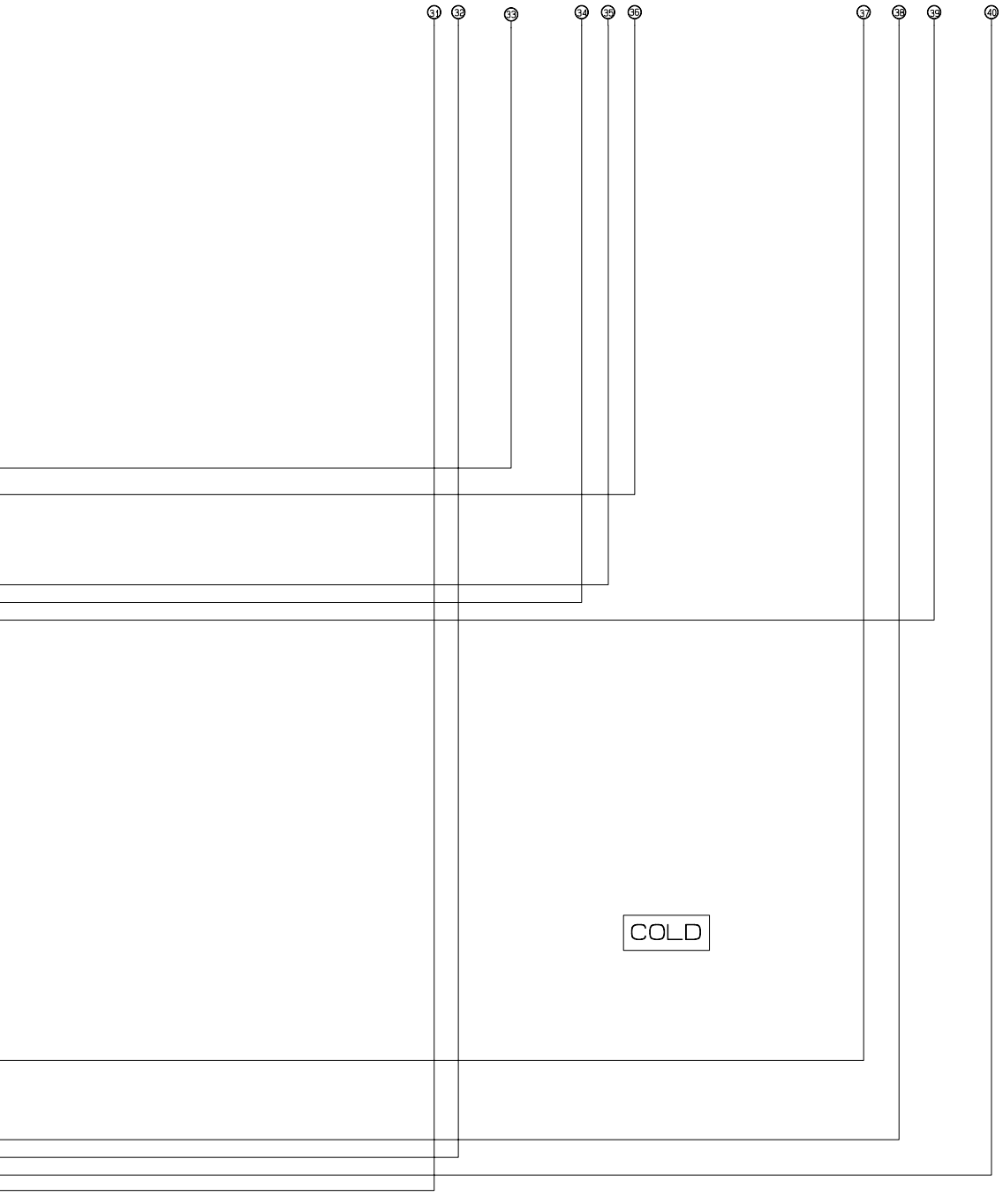
14.10. P-Board (6 of 6) Schematic Diagram

P-BOARD TNPA2889 (6/6)



TH-42PHD6/TH-42PHW6
P-BOARD (6 of 6) Schematic Diagram

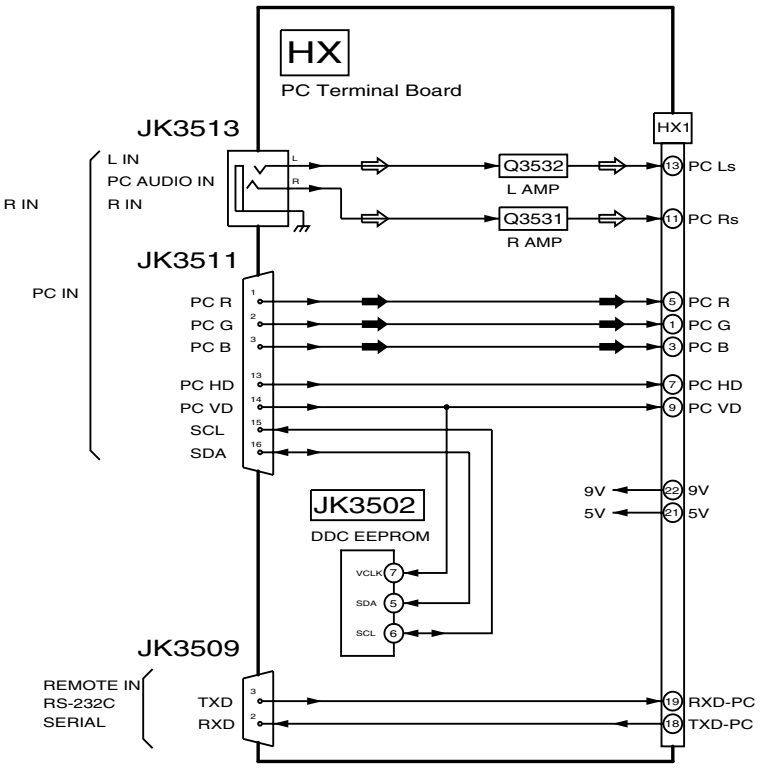
8 9 10 11 12



TH-42PHD6/TH-42PHW6
P-BOARD (6 of 6) Schematic Diagram

12 13 14 15

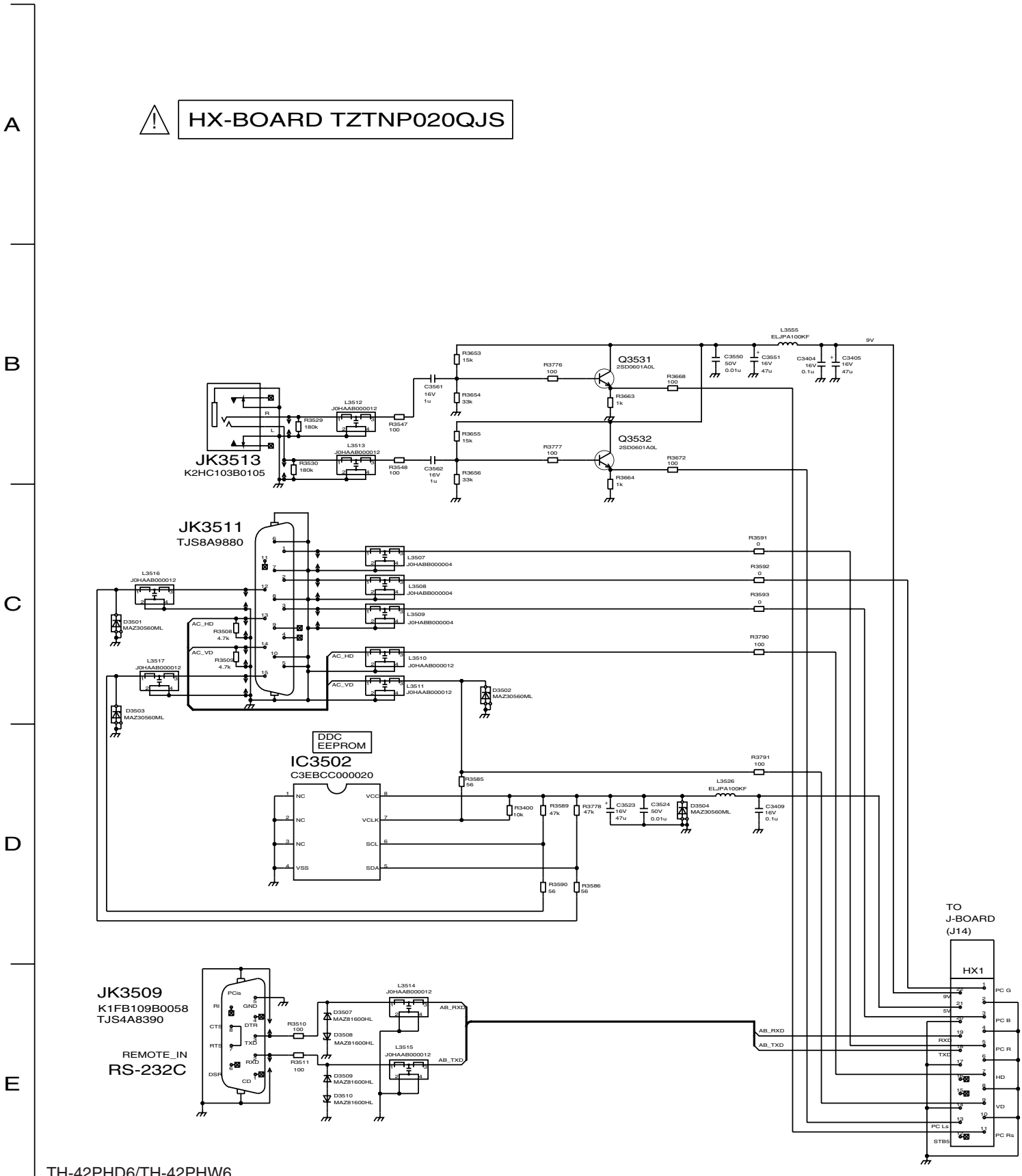
14.11. HX-Board Block Diagram



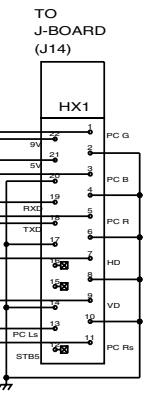
TH-42PHD6/TH-42PHW6
HX-BOARD Block Diagram

TH-42PHD6/TH-42PHW6
HX-BOARD Block Diagram

14.12. HX-Board Schematic Diagram



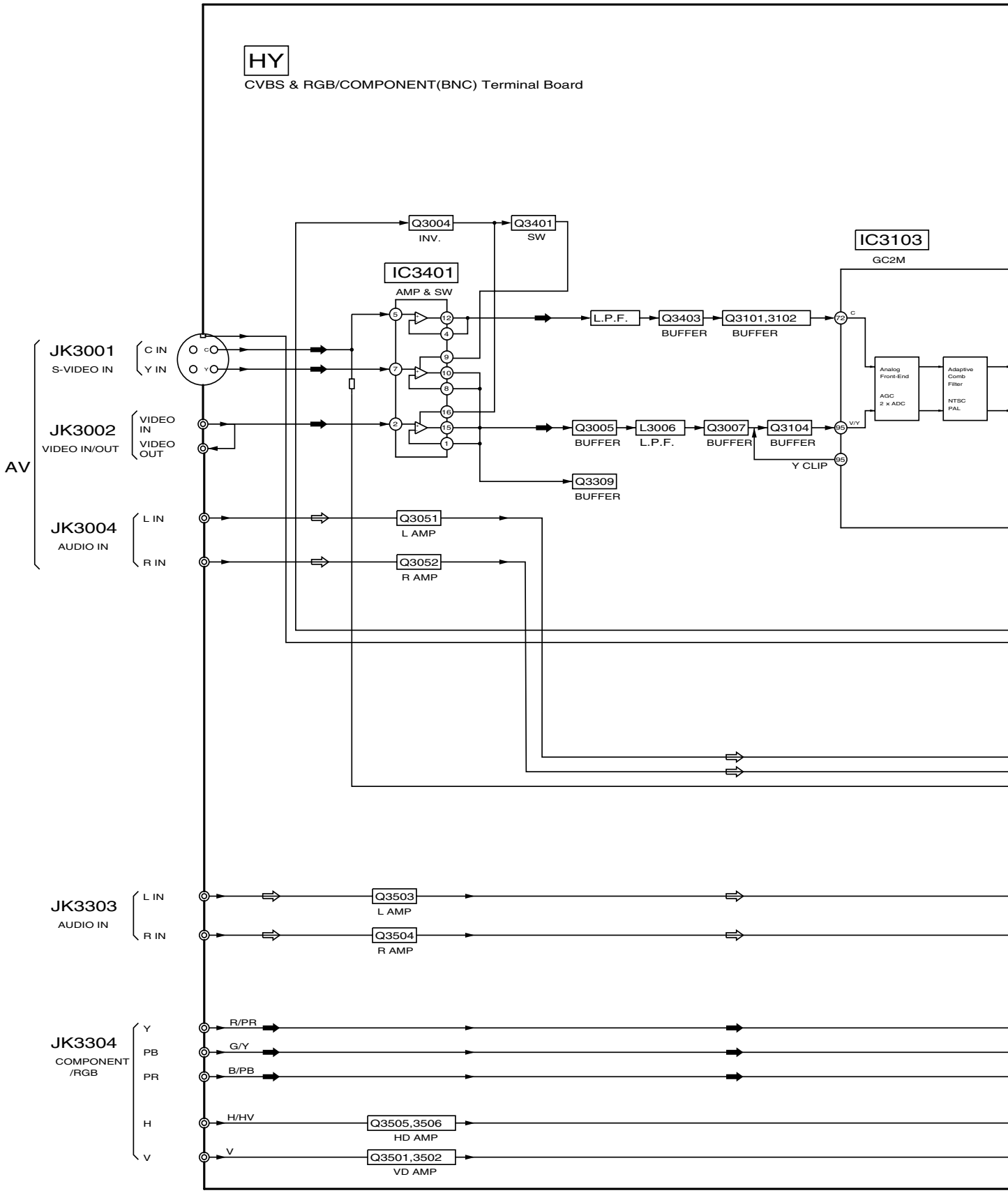
TH-42PHD6/TH-42PHW6
HX-BOARD Schematic Diagram



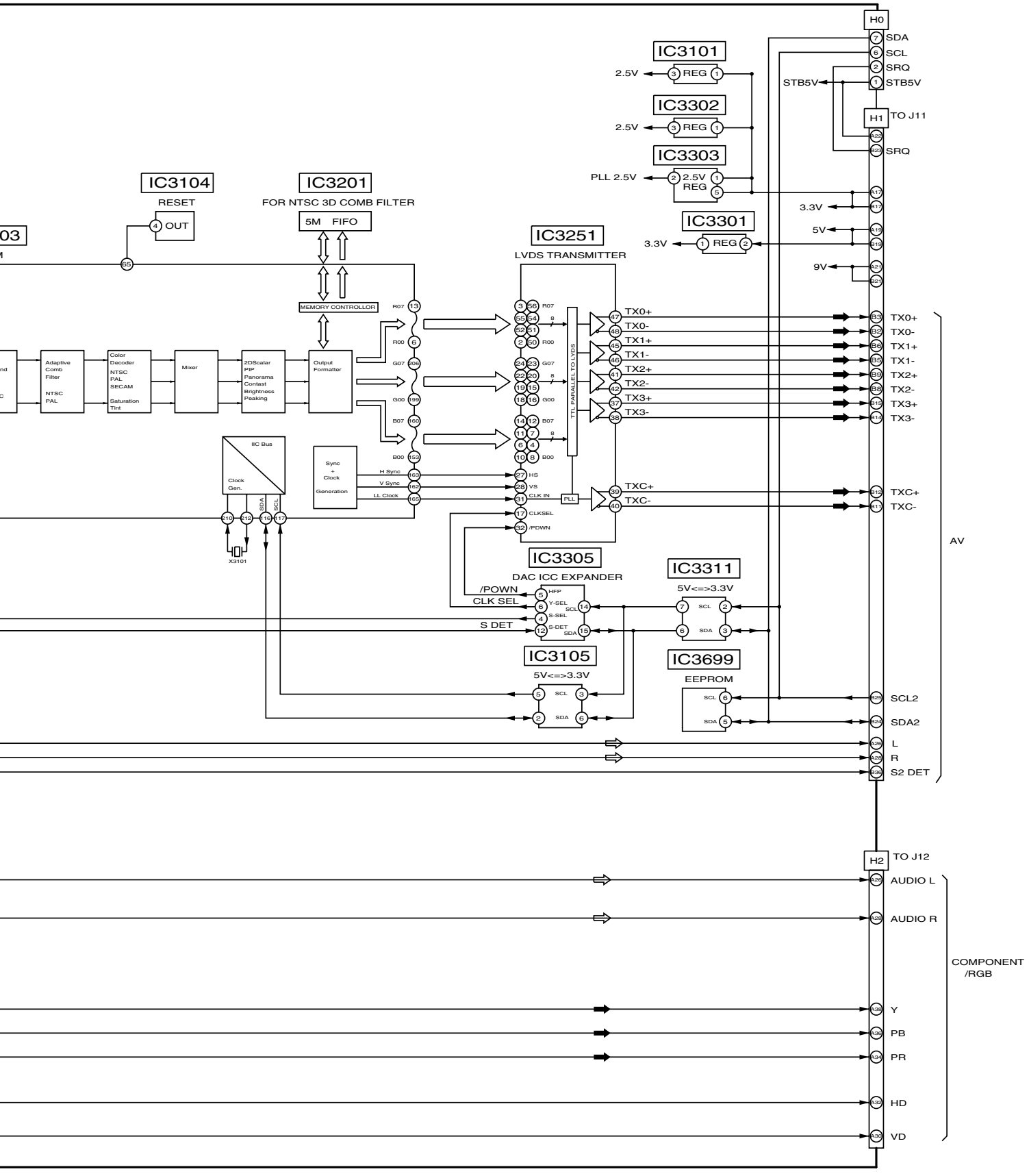
TH-42PHD6/TH-42PHW6
HX-BOARD Schematic Diagram

5 6 7 8

14.13. HY-Board Block Diagram

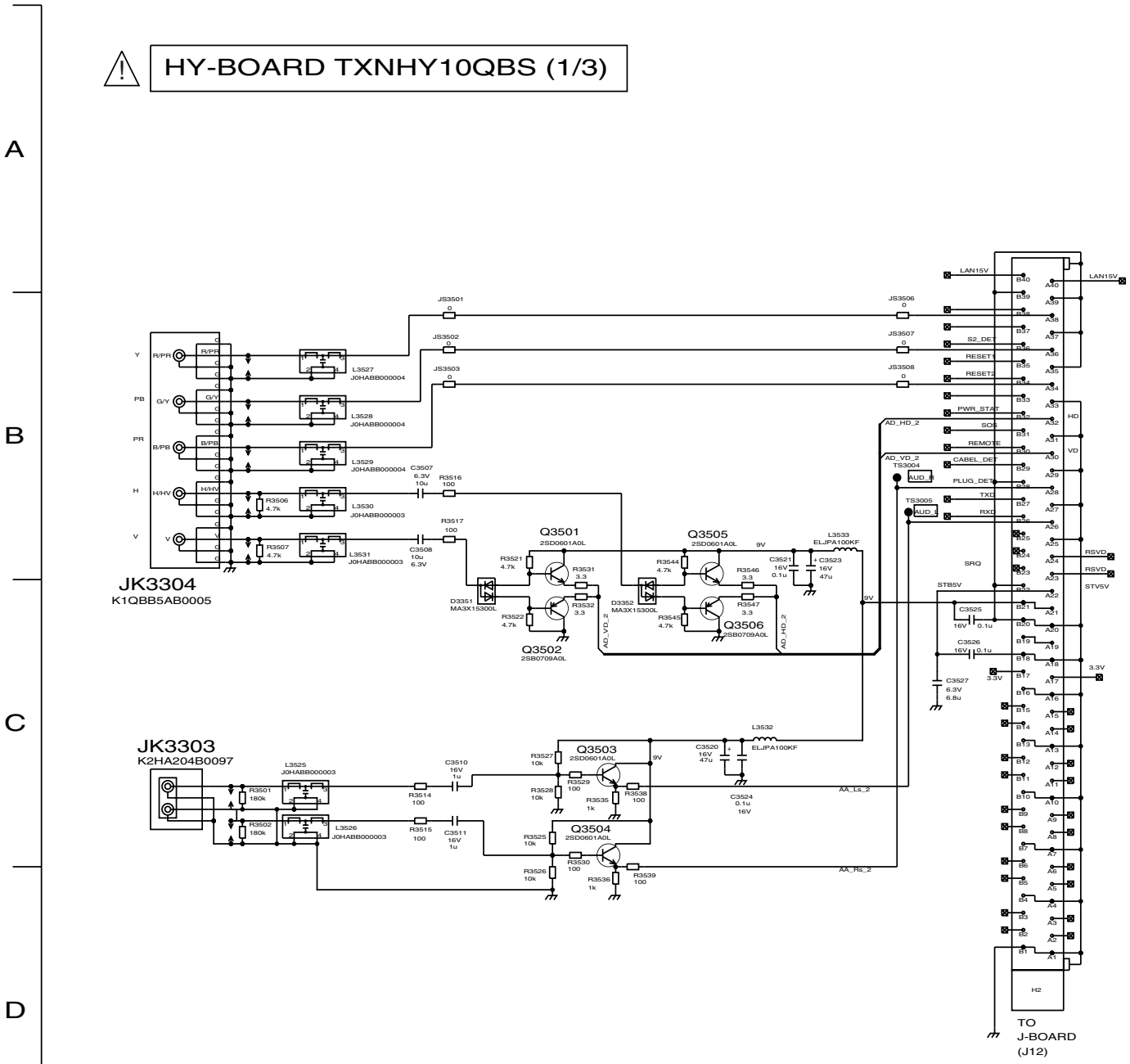


TH-42PHD6/TH-42PHW6
HY-BOARD Block Diagram

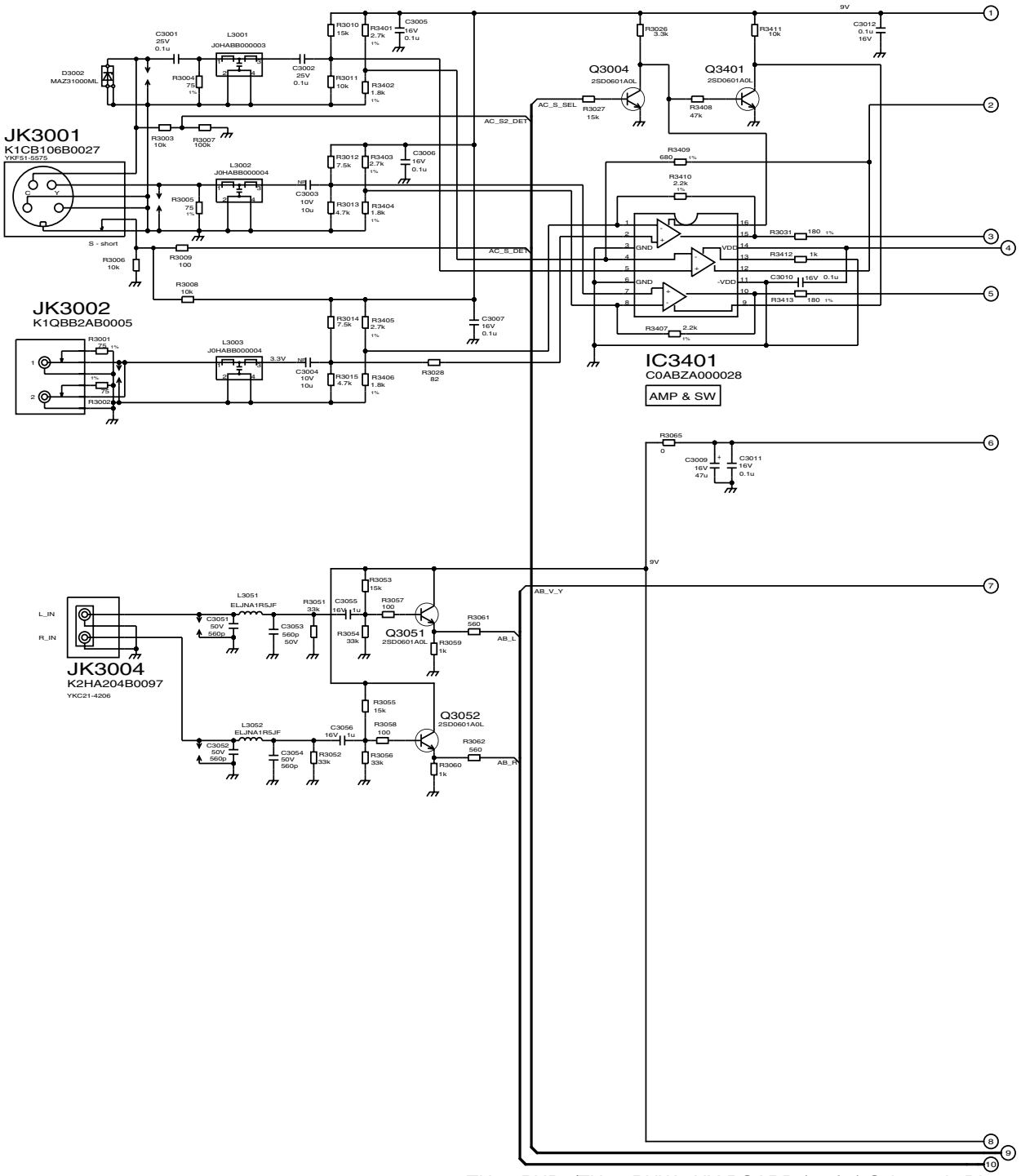


TH-42PHD6/TH-42PHW6
HY-BOARD Block Diagram

14.14. HY-Board (1 of 3) Schematic Diagram



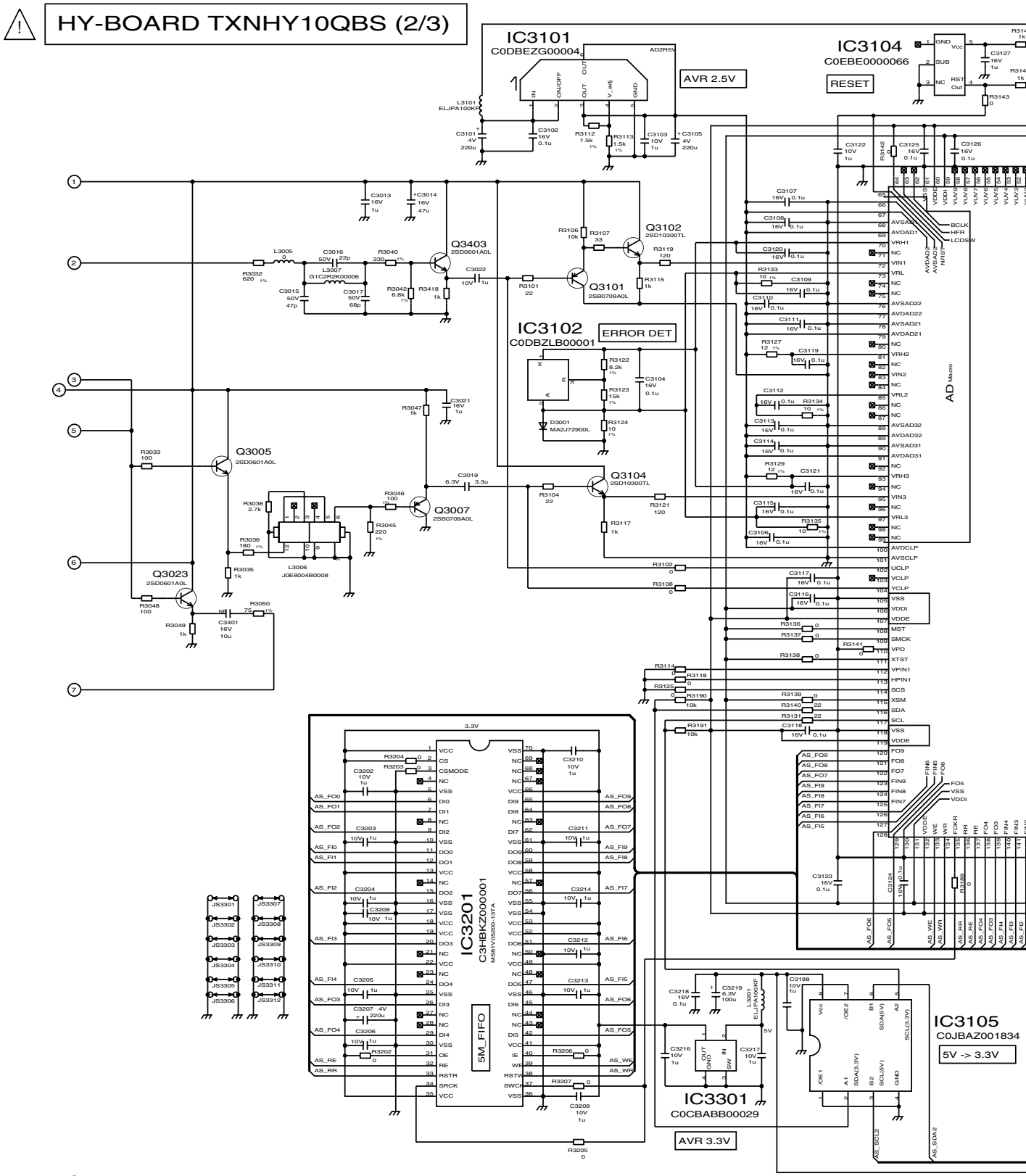
TH-42PHD6/TH-42PHW6
HY-BOARD (1 of 3) Schematic Diagram



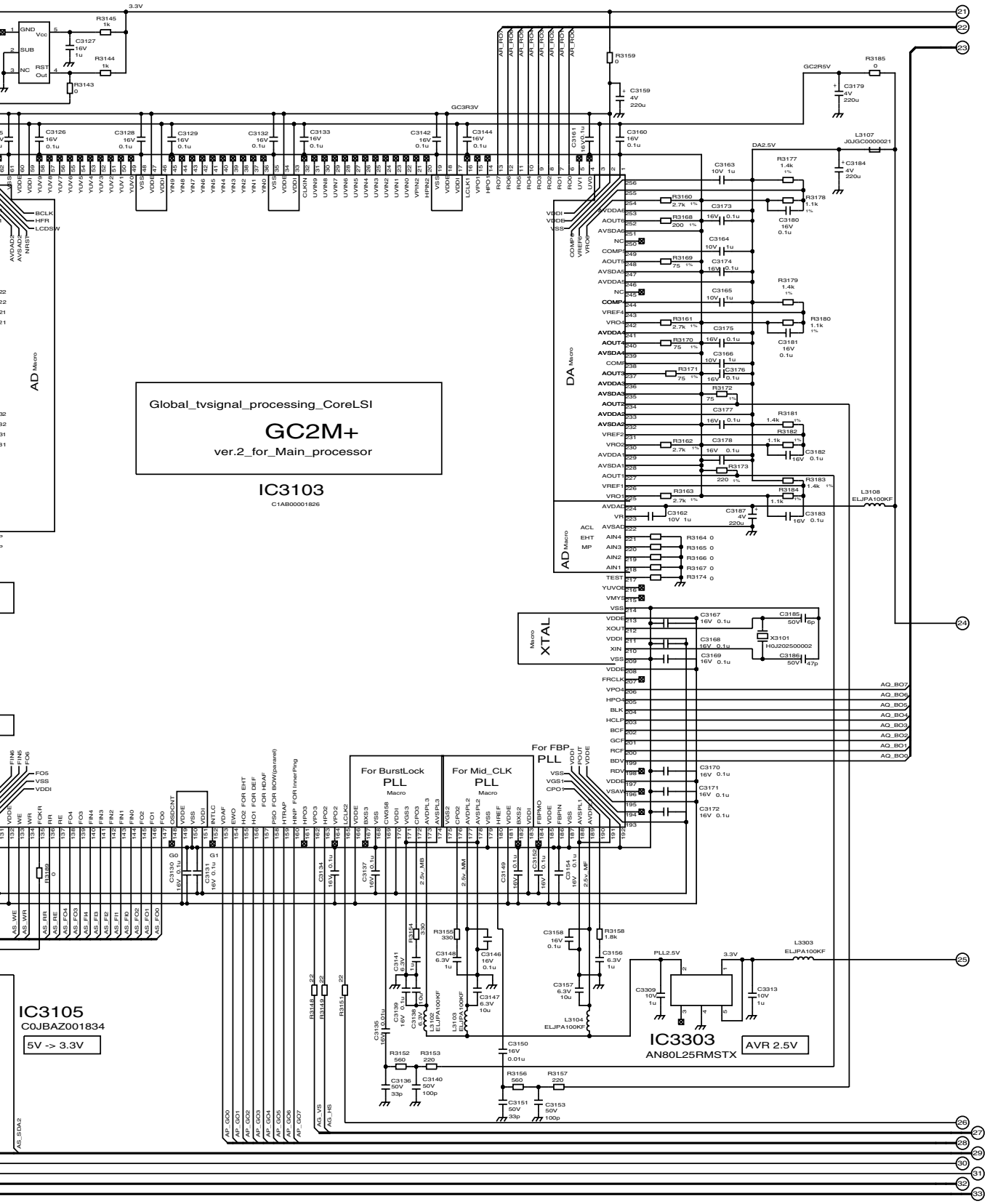
TH-42PHD6/TH-42PHW6 HY-BOARD (1 of 3) Schematic Diagram

5 6 7 8

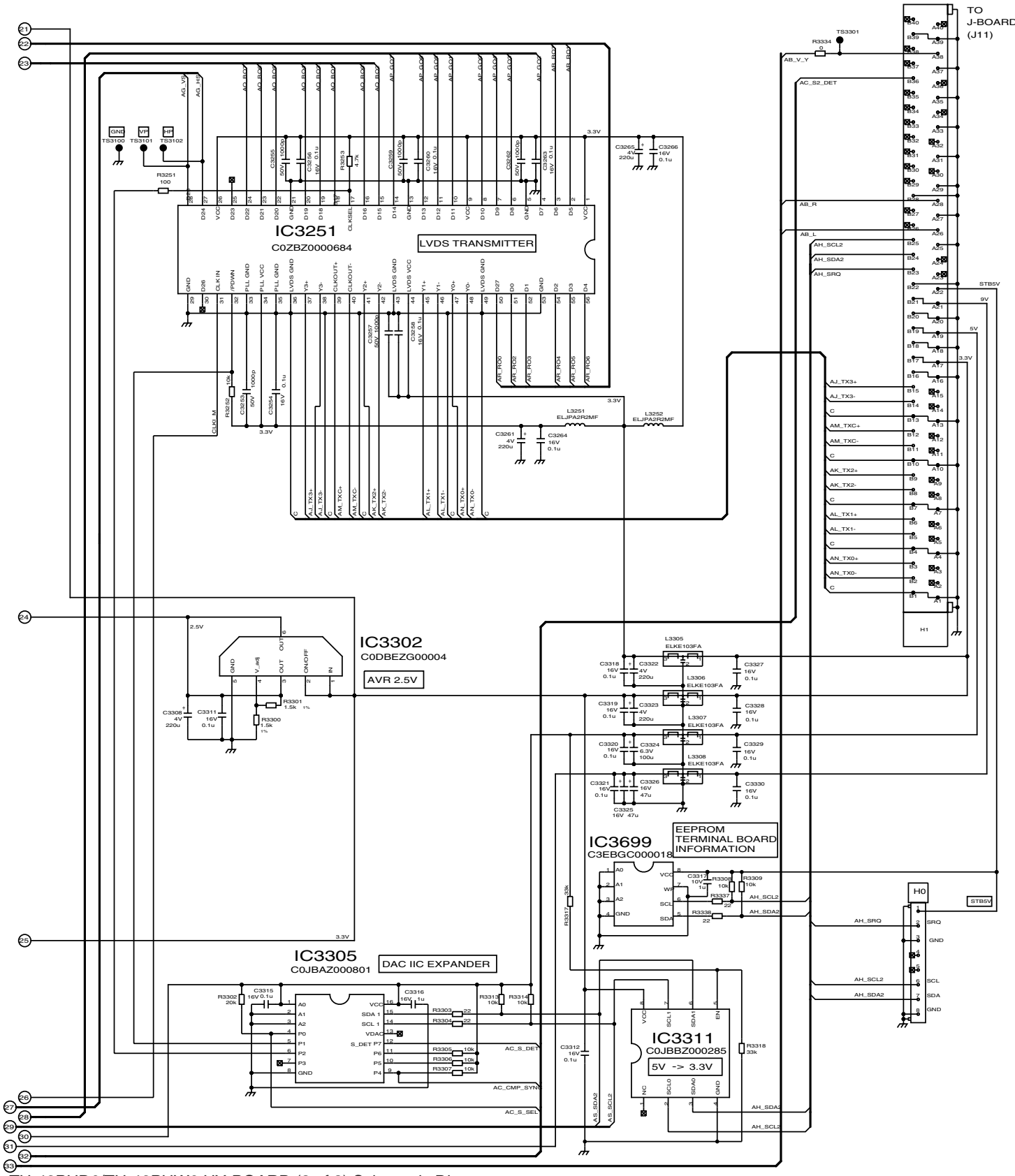
14.15. HY-Board (2 of 3) Schematic Diagram



TH-42PHD6/TH-42PHW6 HY-BOARD (2 of 3) Schematic Diagram

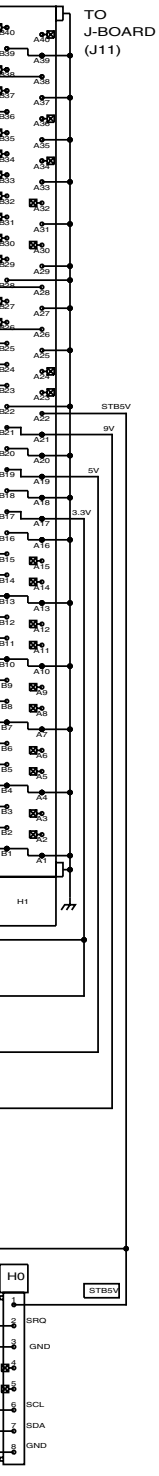

Global_tvsignal_processing_CoreLSI
GC2M+
ver.2_for_Main_processor
IC3103
C1AB00001826
IC3105
C0JBAZ001834
5V -> 3.3V
IC3303
AN80L25RMSTX
AVR 2.5V
For BurstLock PLL Macro
For Mid_CLK PLL Macro
For FBP PLL
XTAL
AD Macro
DA Macro

14.16. HY-Board (3 of 3) Schematic Diagram



TH-42PHD6/TH-42PHW6 HY-BOARD (3 of 3) Schematic Diagram

16 17 18 19

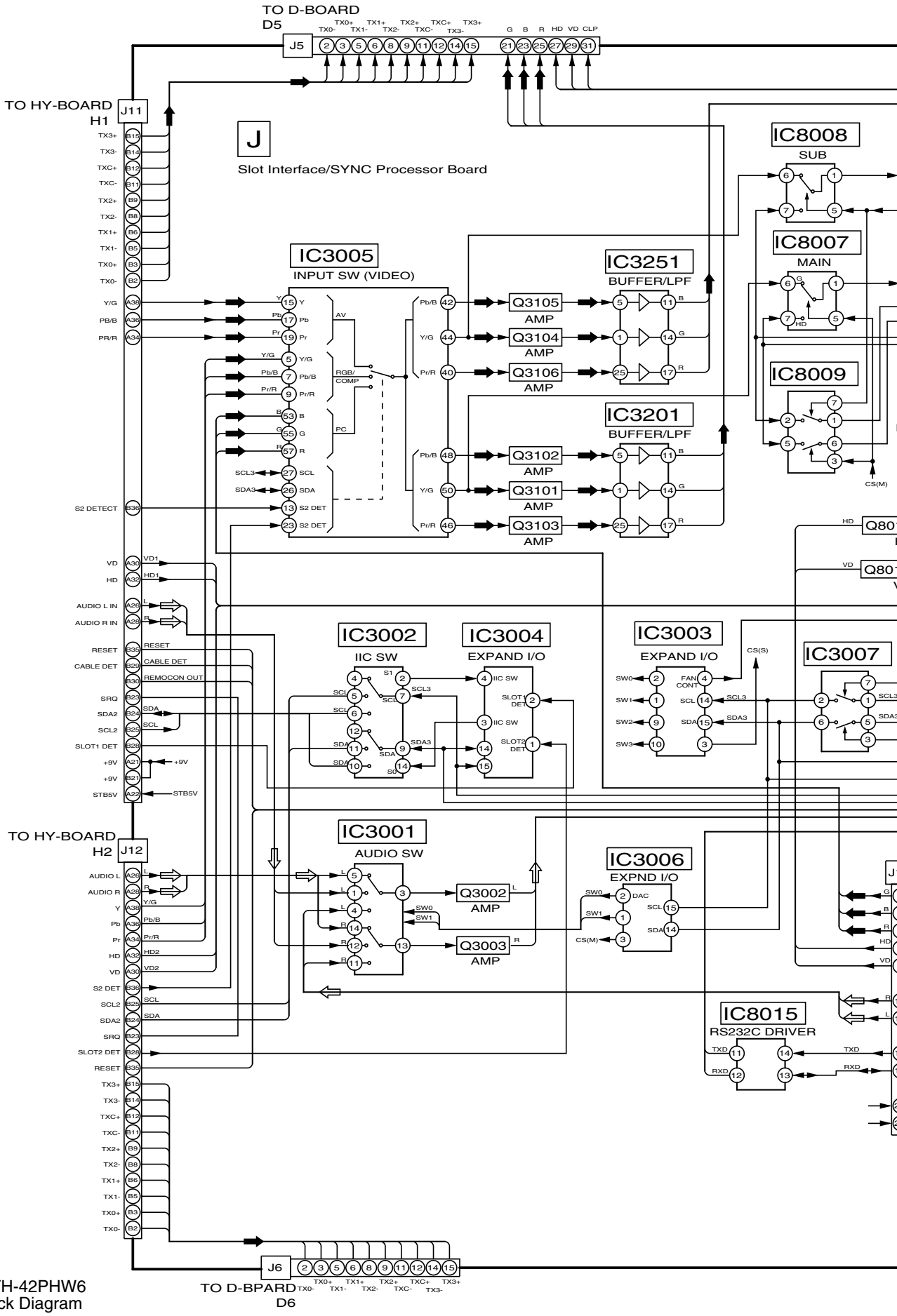


⚠ HY-BOARD TXNHY10QBS (3/3)

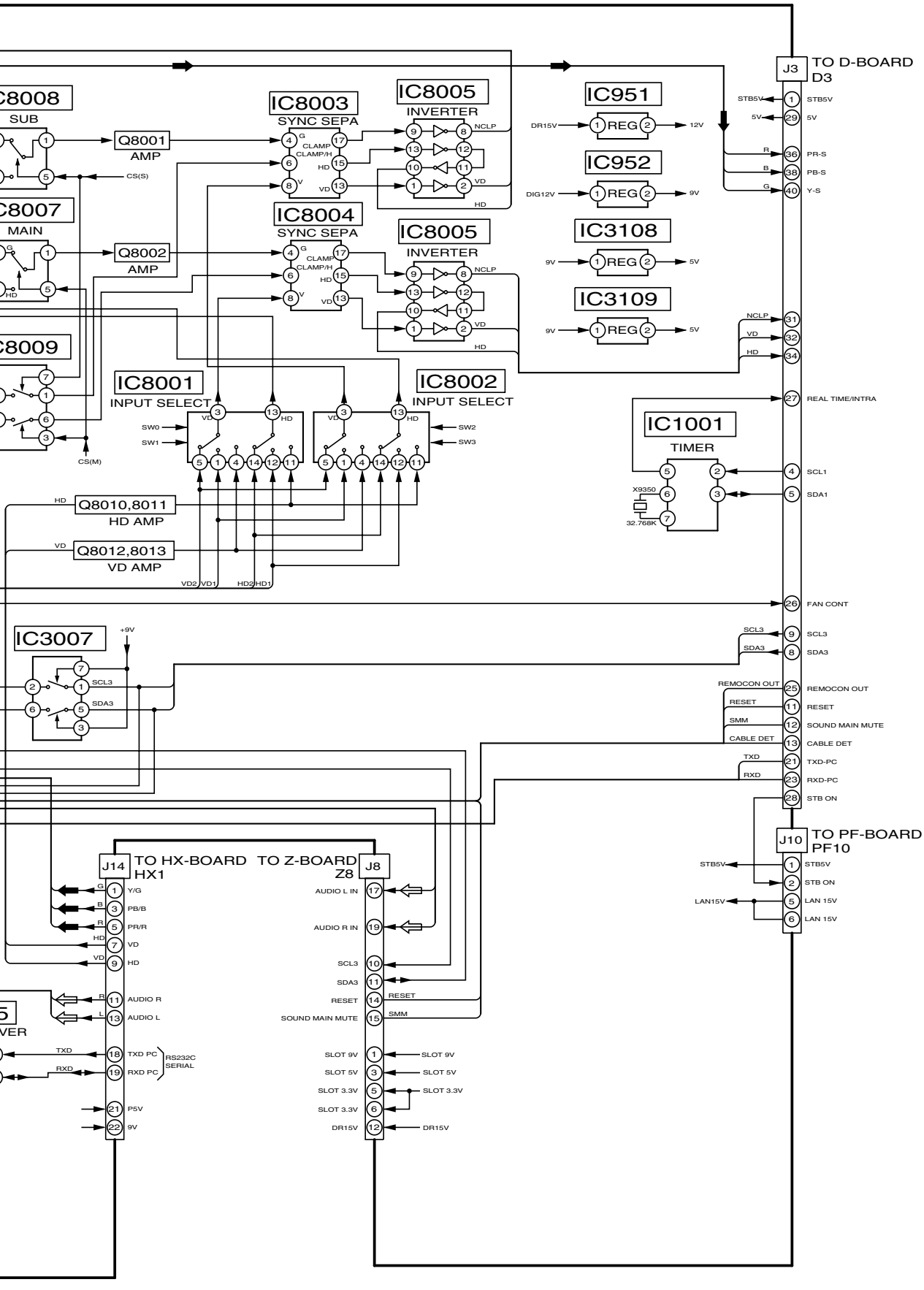
TH-42PHD6/TH-42PHW6 HY-BOARD (3 of 3) Schematic Diagram

20 21 22 23

14.17. J-Board Block Diagram

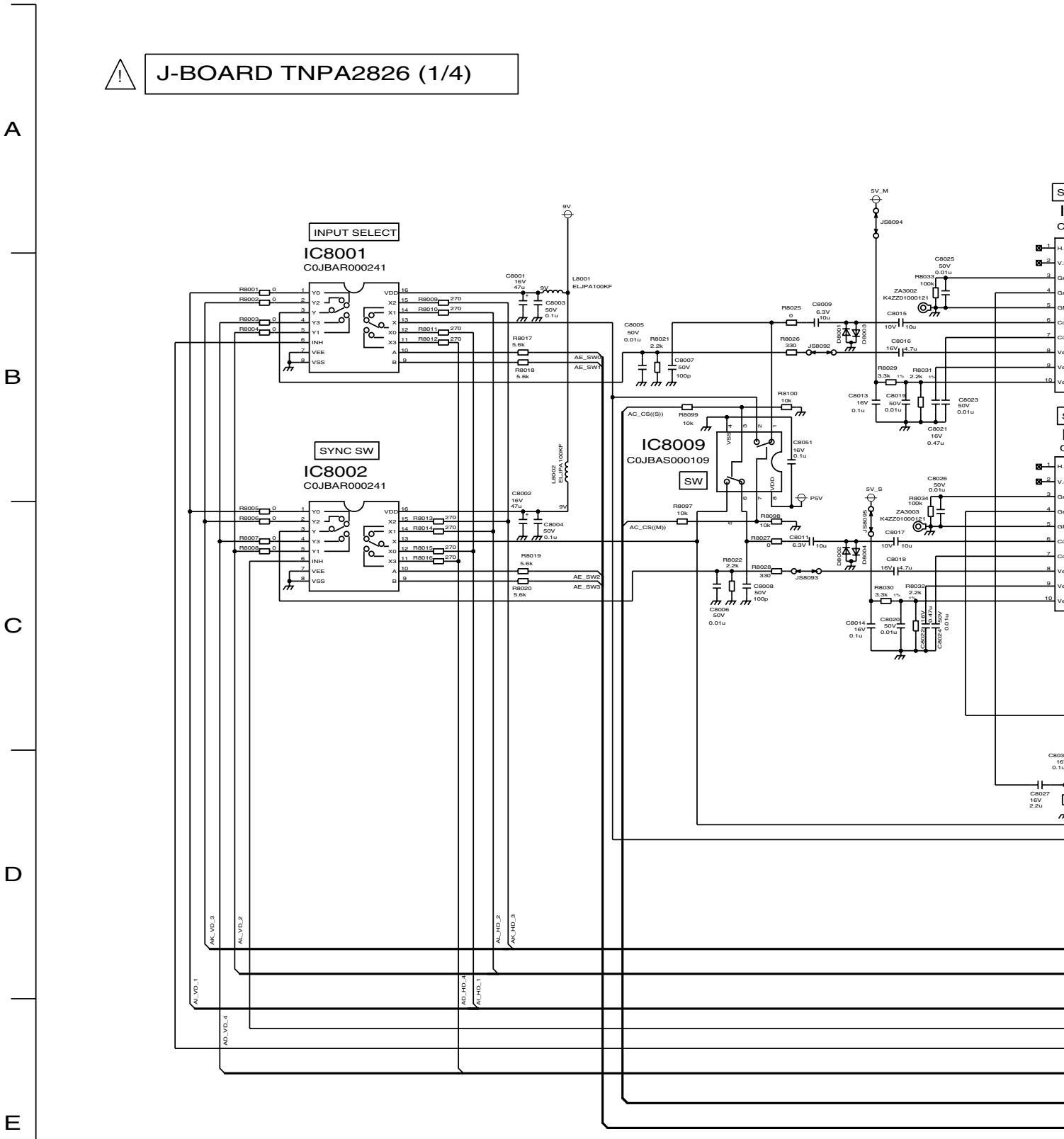


TH-42PHD6/TH-42PHW6
J-BOARD Block Diagram

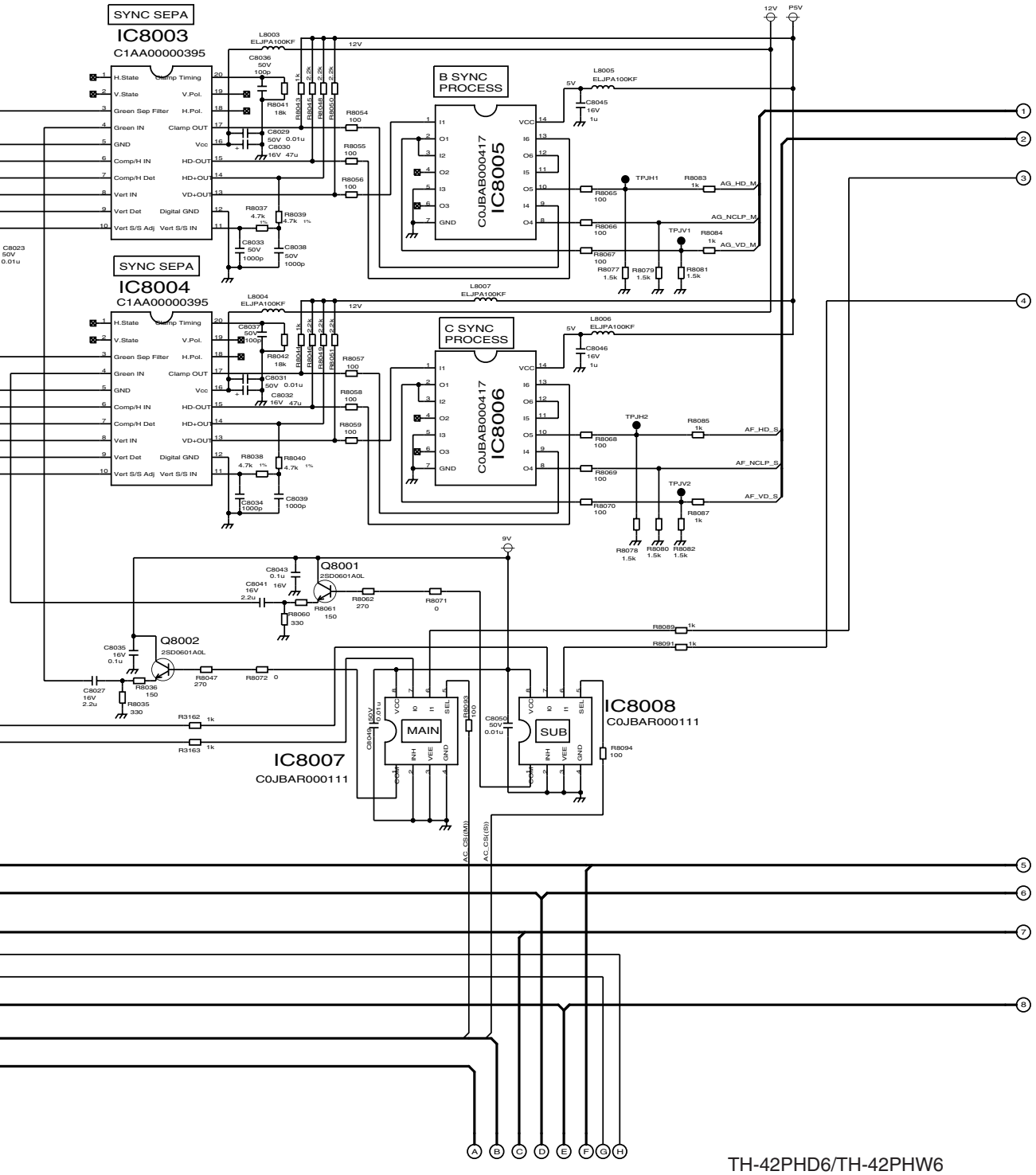


TH-42PHD6/TH-42PHW6
J-BOARD Block Diagram

14.18. J-Board (1 of 4) Schematic Diagram



TH-42PHD6/TH-42PHW6
J-BOARD (1 of 4) Schematic Diagram

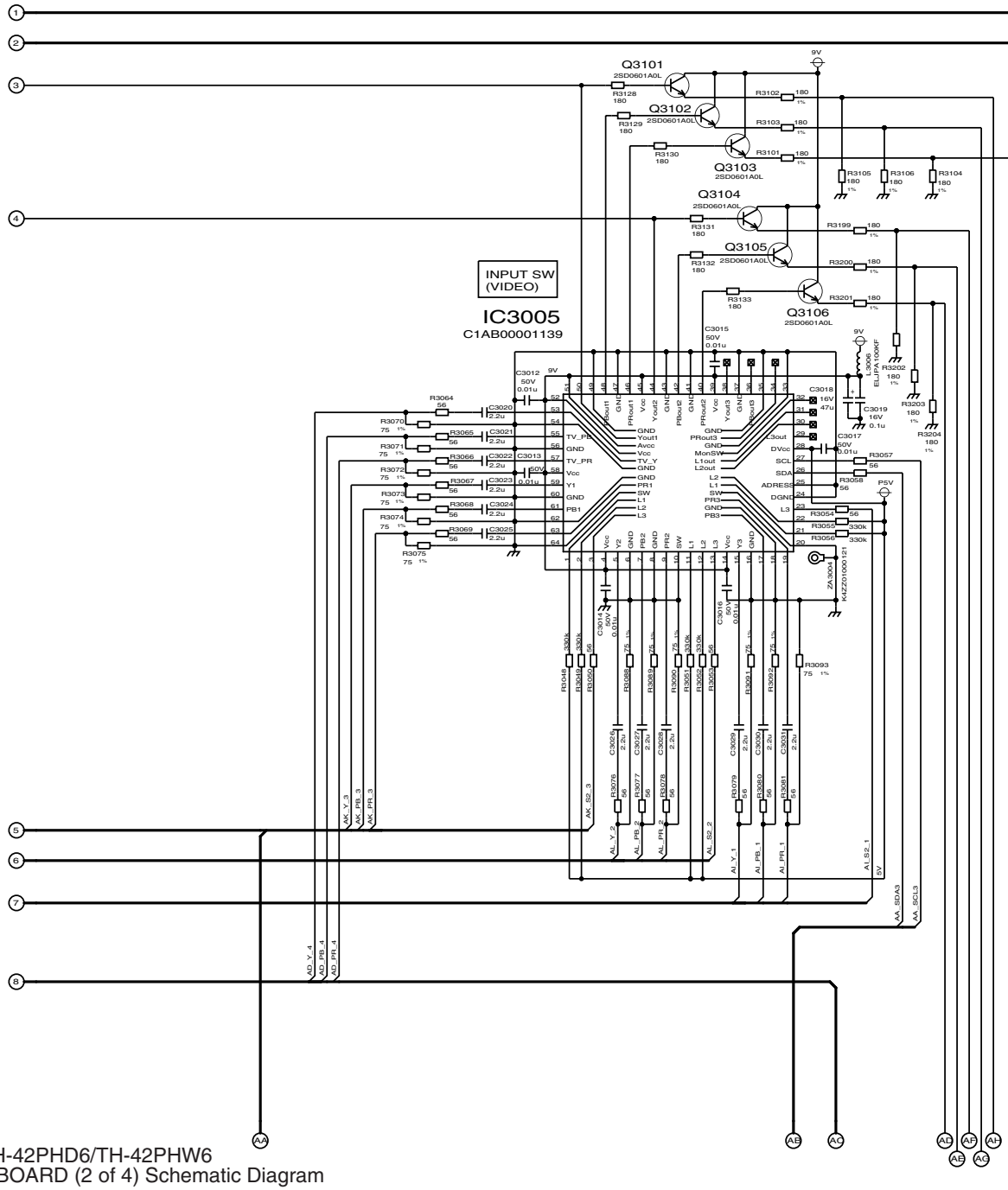


TH-42PHD6/TH-42PHW6
J-BOARD (1 of 4) Schematic Diagram

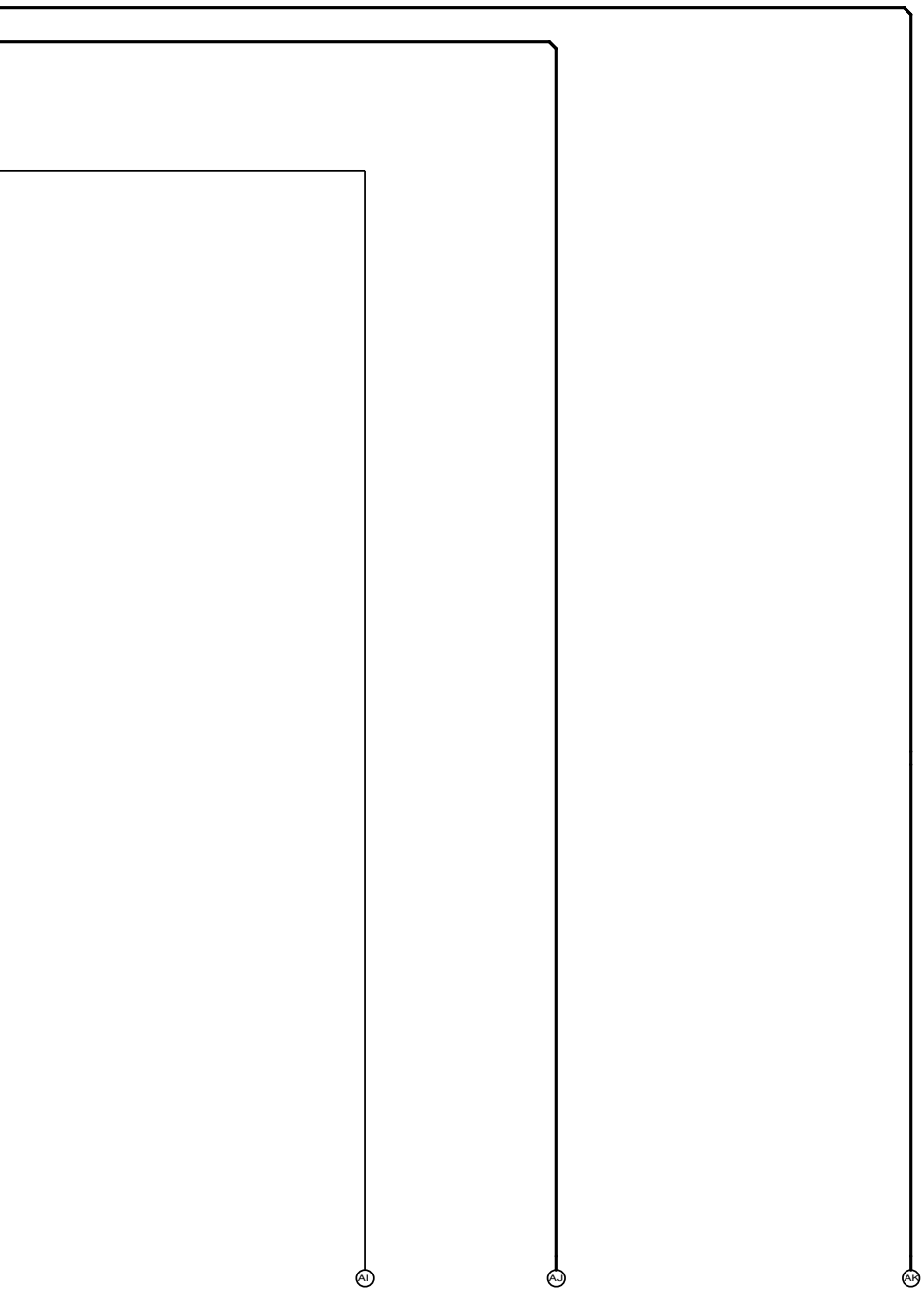
5 6 7 8

14.19. J-Board (2 of 4) Schematic Diagram

⚠ J-BOARD TNPA2826 (2/4)



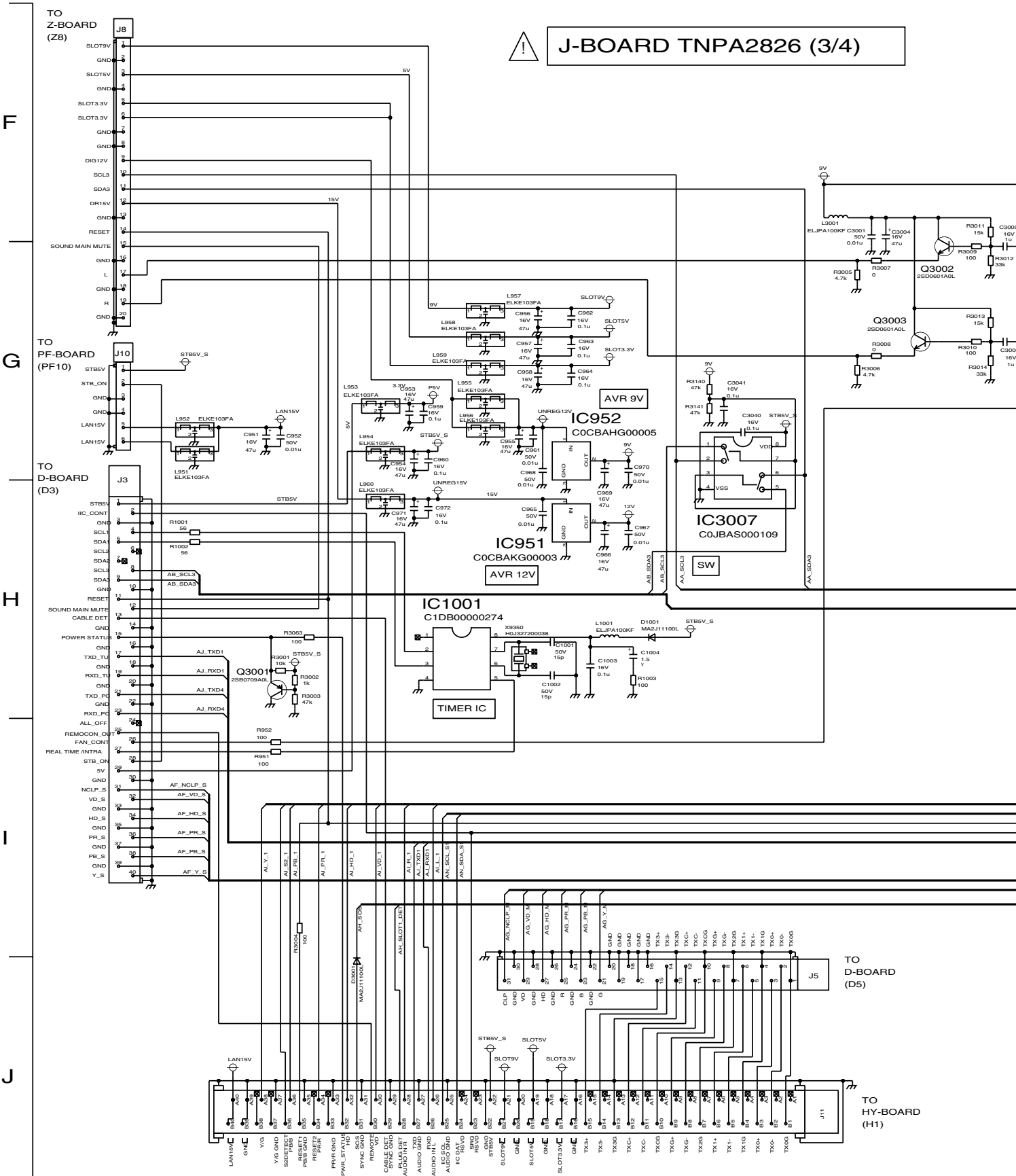
TH-42PHD6/TH-42PHW6
J-BOARD (2 of 4) Schematic Diagram



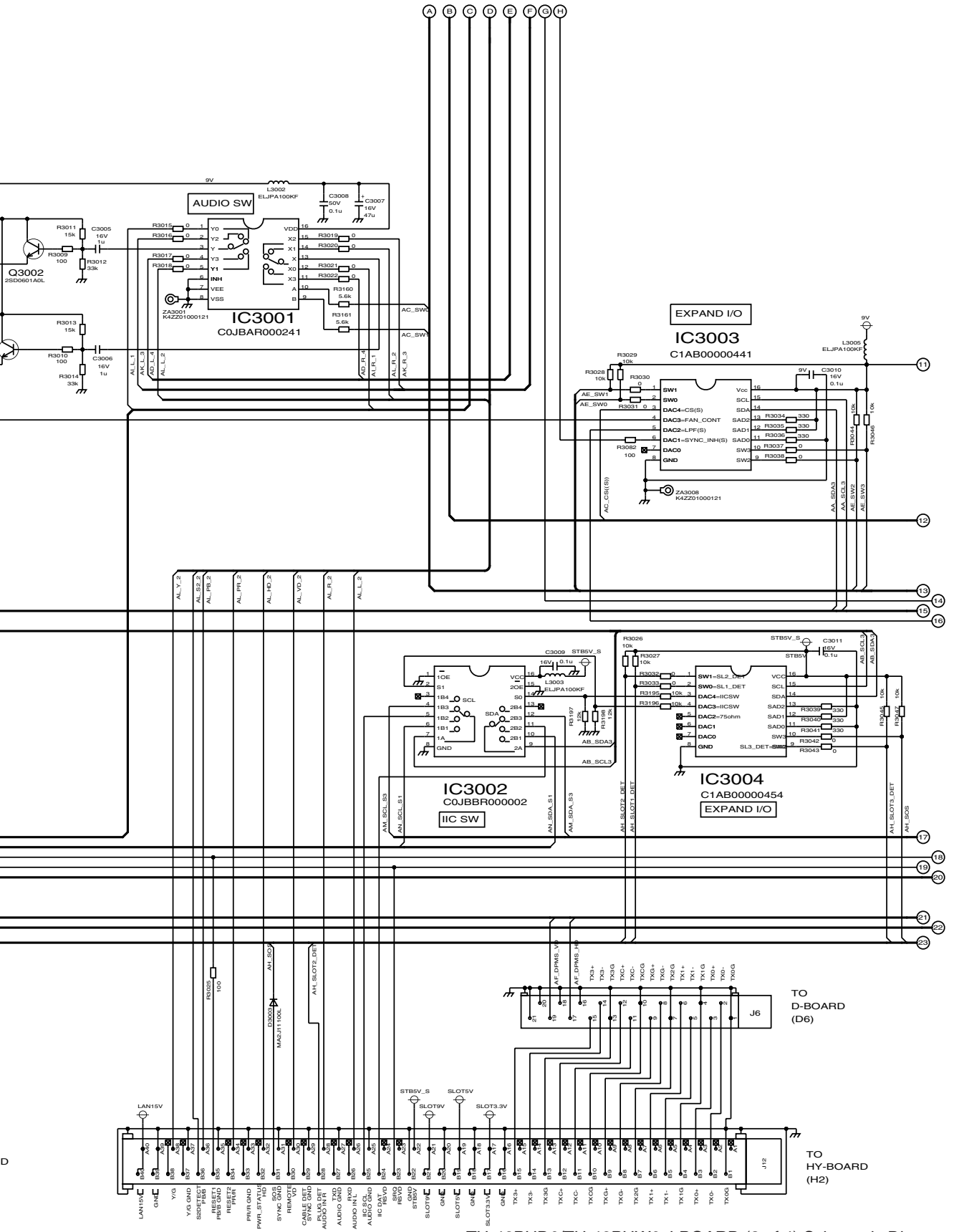
TH-42PHD6/TH-42PHW6
J-BOARD (2 of 4) Schematic Diagram

12 13 14 15

14.20. J-Board (3 of 4) Schematic Diagram

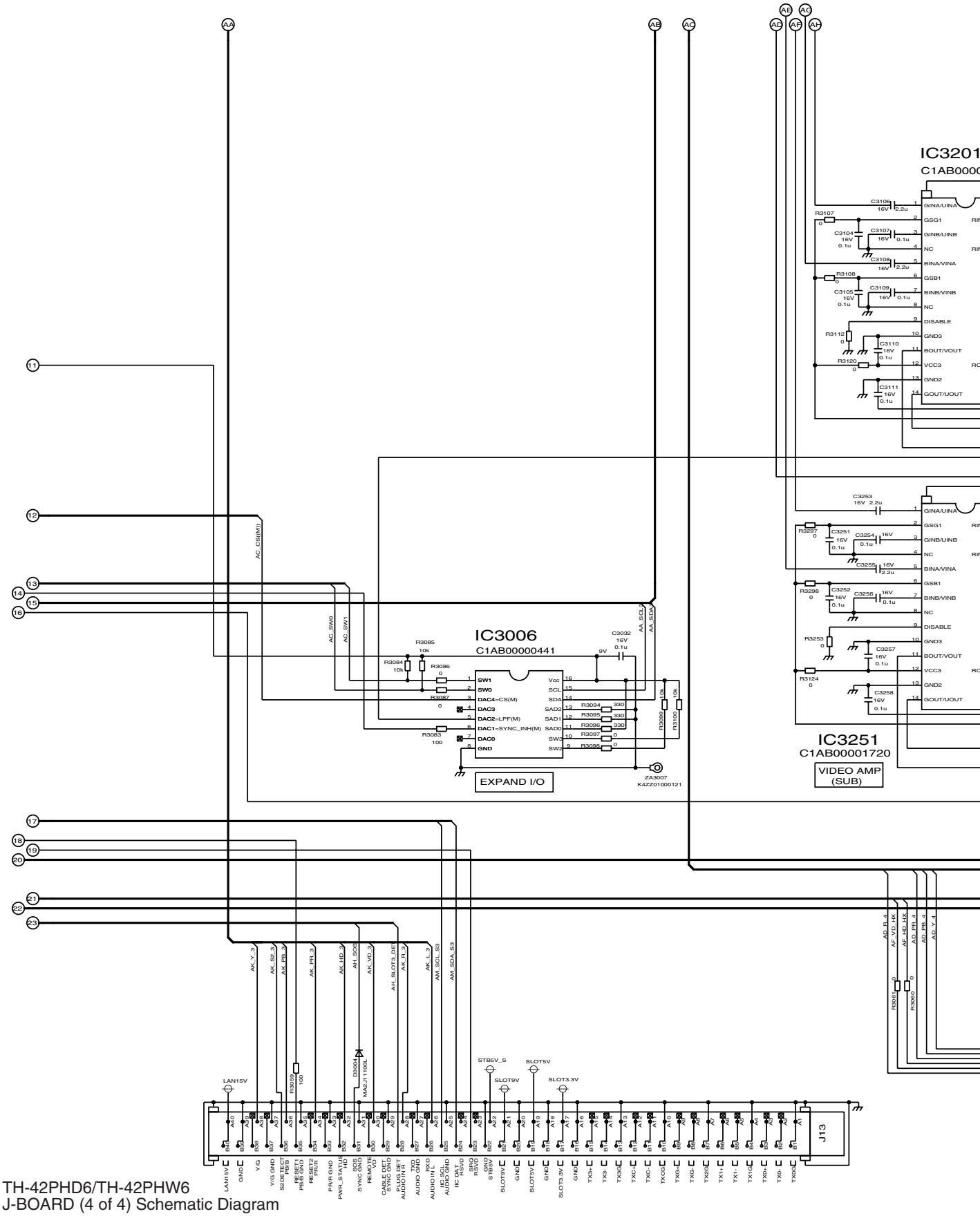


TH-42PHD6/TH-42PHW6 J-BOARD (3 of 4) Schematic Diagram

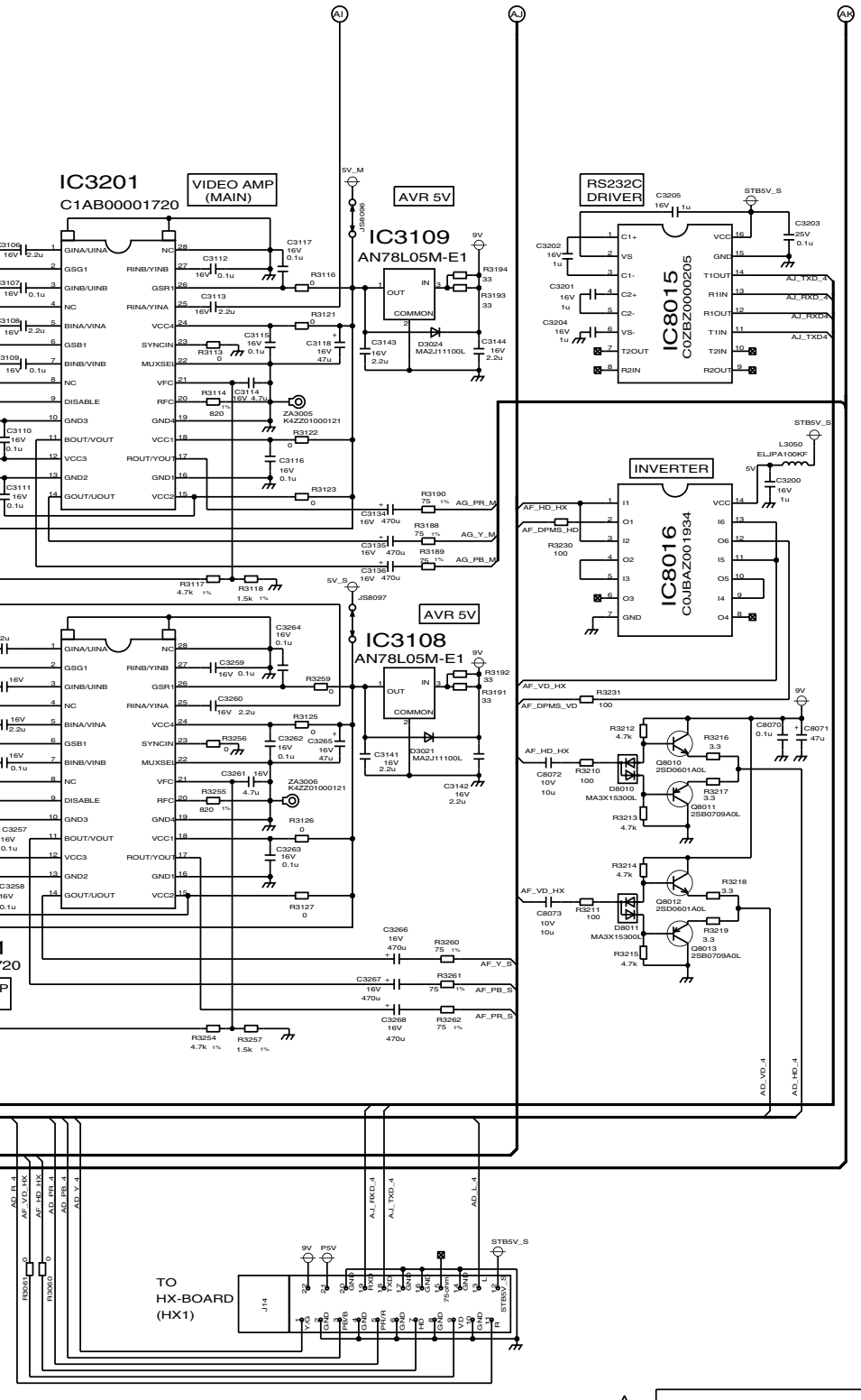


TH-42PHD6/TH-42PHW6 J-BOARD (3 of 4) Schematic Diagram

14.21. J-Board (4 of 4) Schematic Diagram



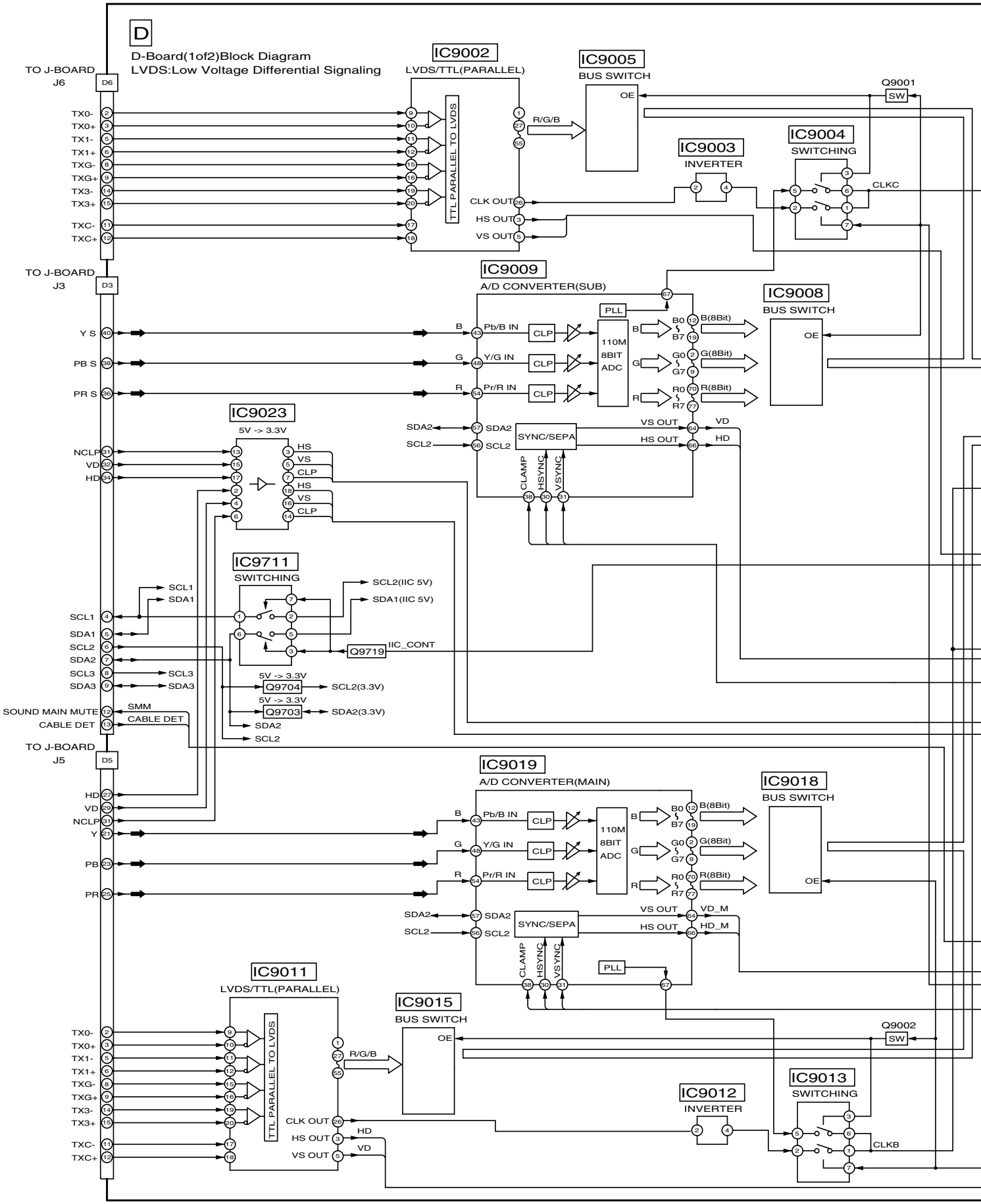
TH-42PHD6/TH-42PHW6
J-BOARD (4 of 4) Schematic Diagram



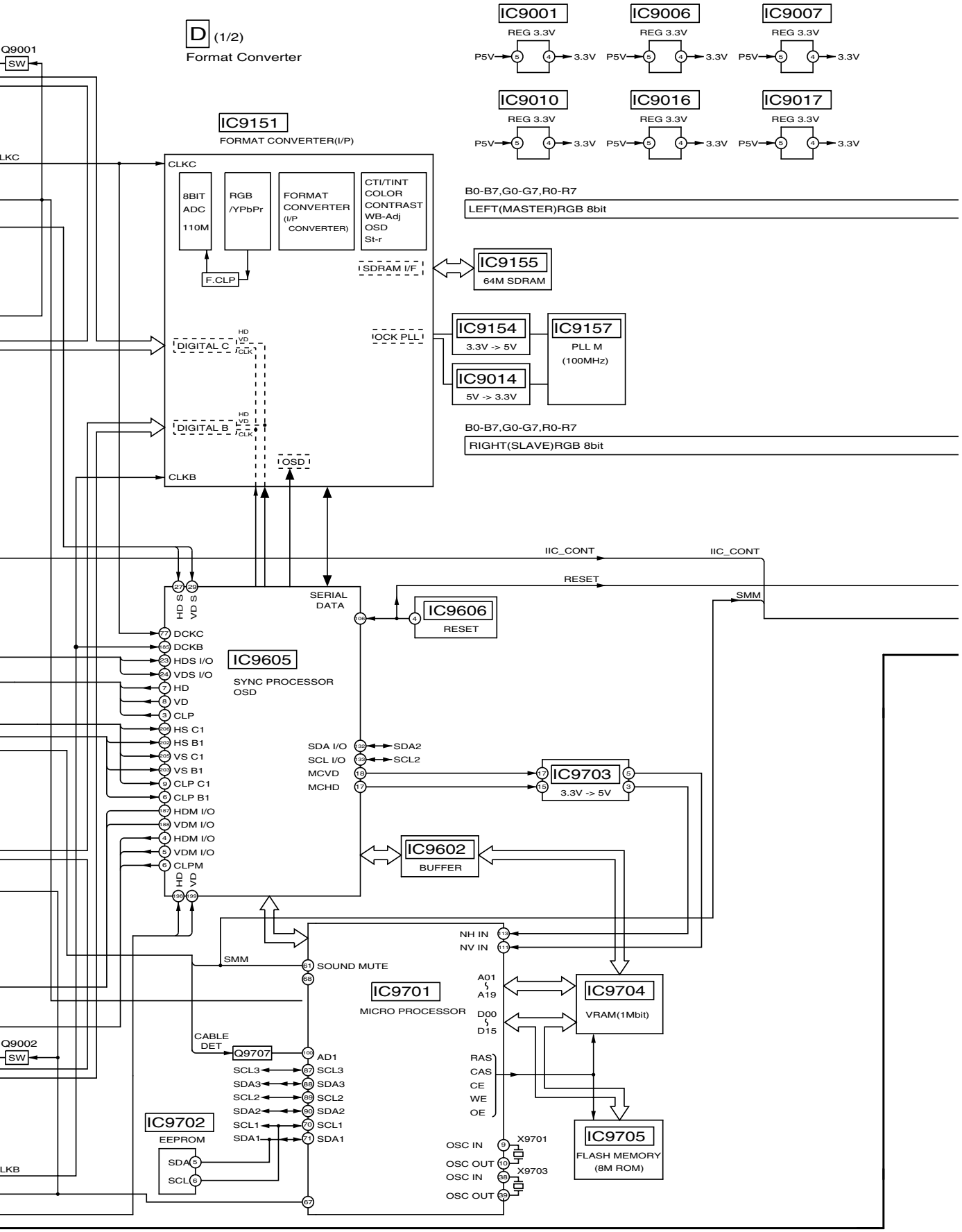
J-BOARD TNPA2826 (4/4)

TH-42PHD6/TH-42PHW6
J-BOARD (4 of 4) Schematic Diagram

14.22. D-Board (1 of 2) Block Diagram

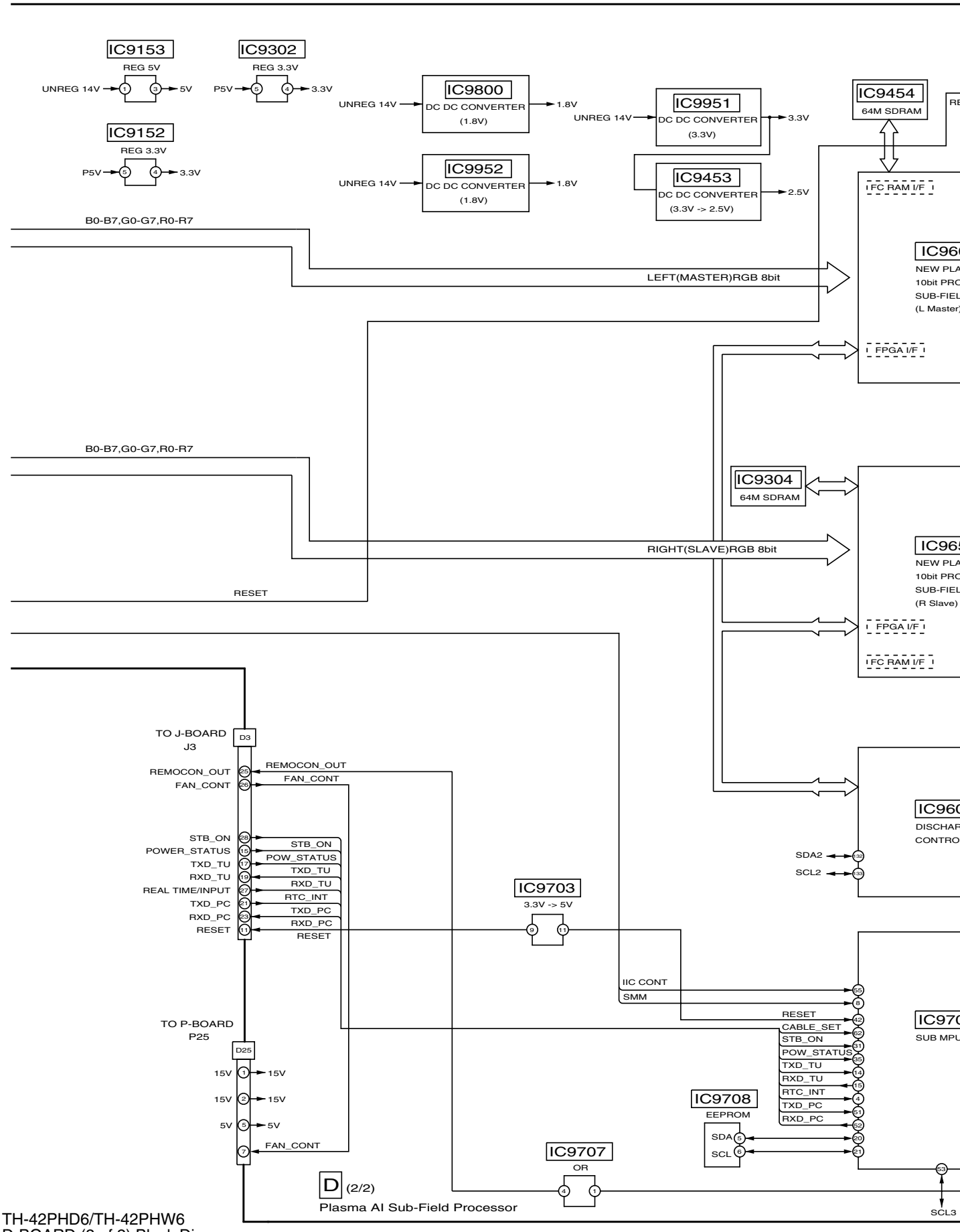


TH-42PHD6/TH-42PHW6
D-BOARD (1 of 2) Block Diagram

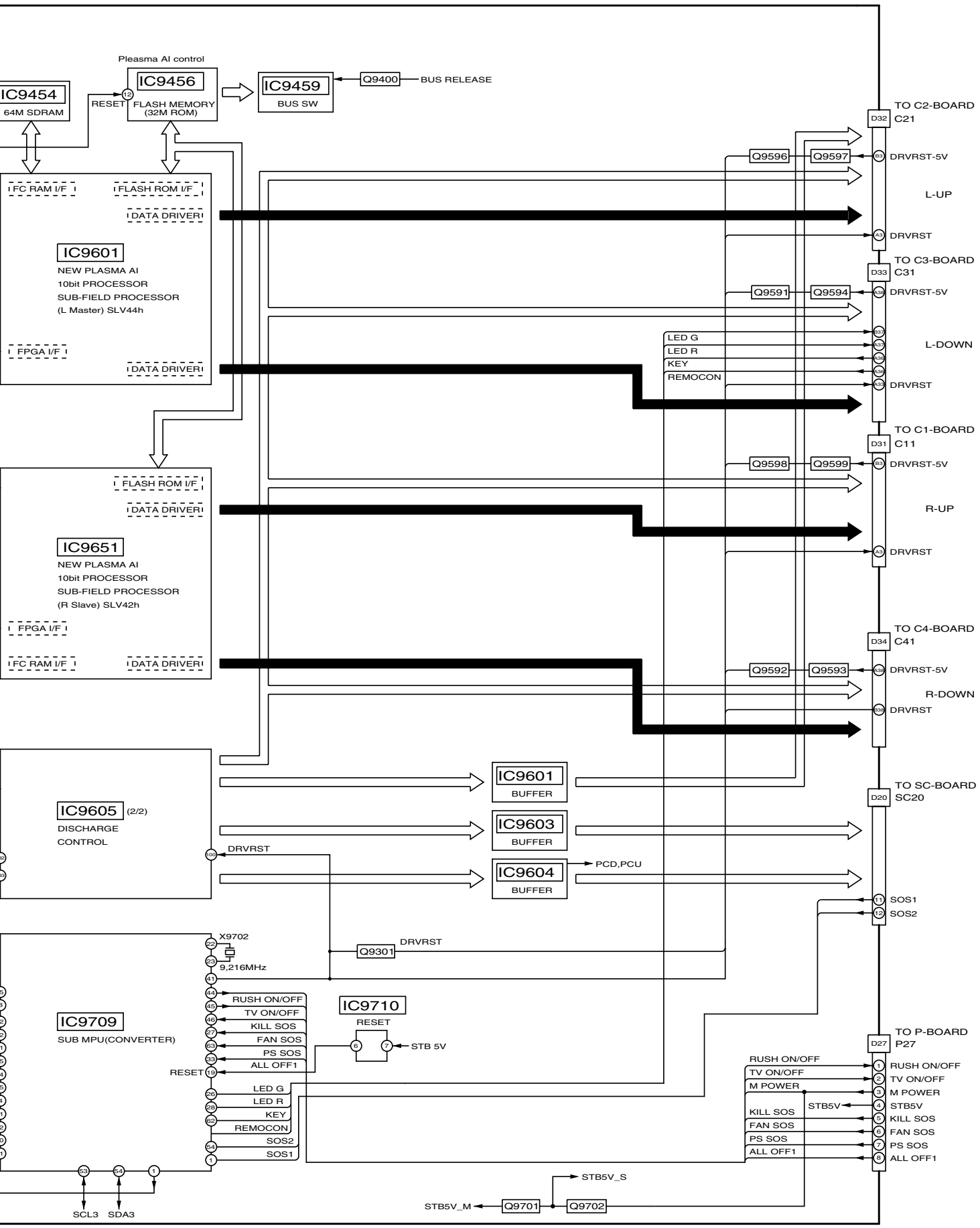


TH-42PHD6/TH-42PHW6
D-BOARD (1 of 2) Block Diagram

14.23. D-Board (2 of 2) Block Diagram

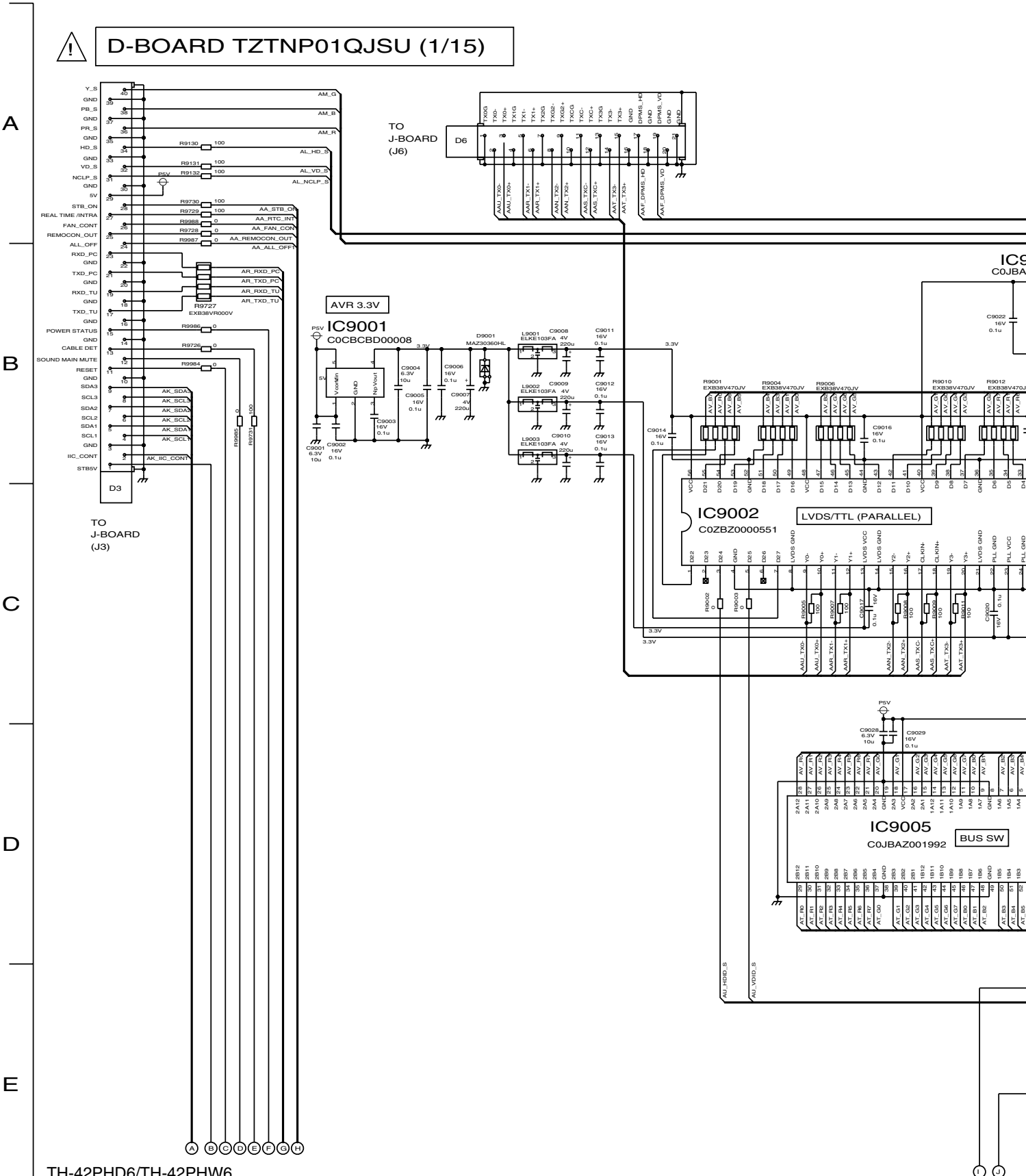


TH-42PHD6/TH-42PHW6
D-BOARD (2 of 2) Block Diagram

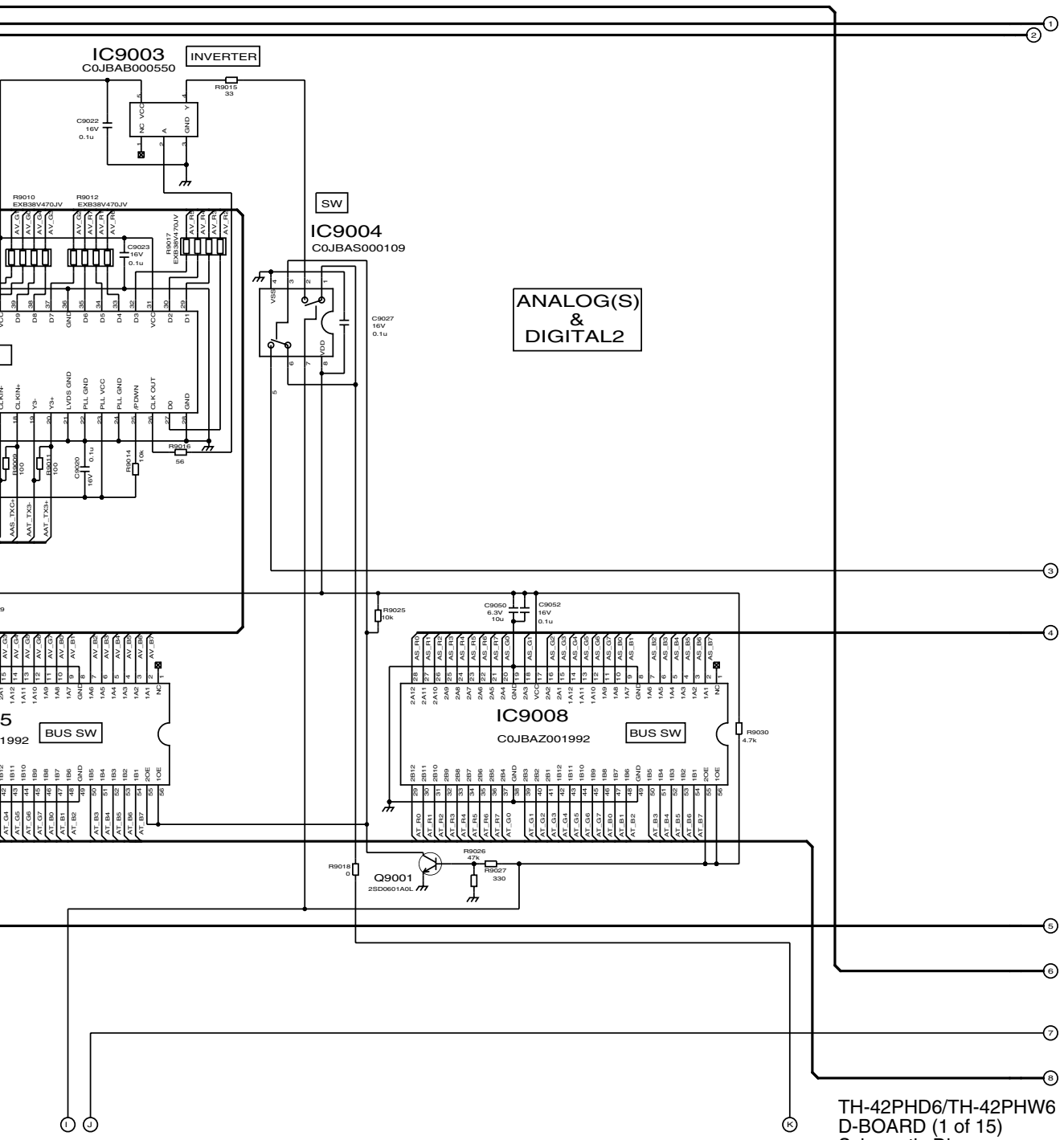


TH-42PHD6/TH-42PHW6 D-BOARD (2 of 2) Block Diagram

14.24. D-Board (1 of 15) Schematic Diagram



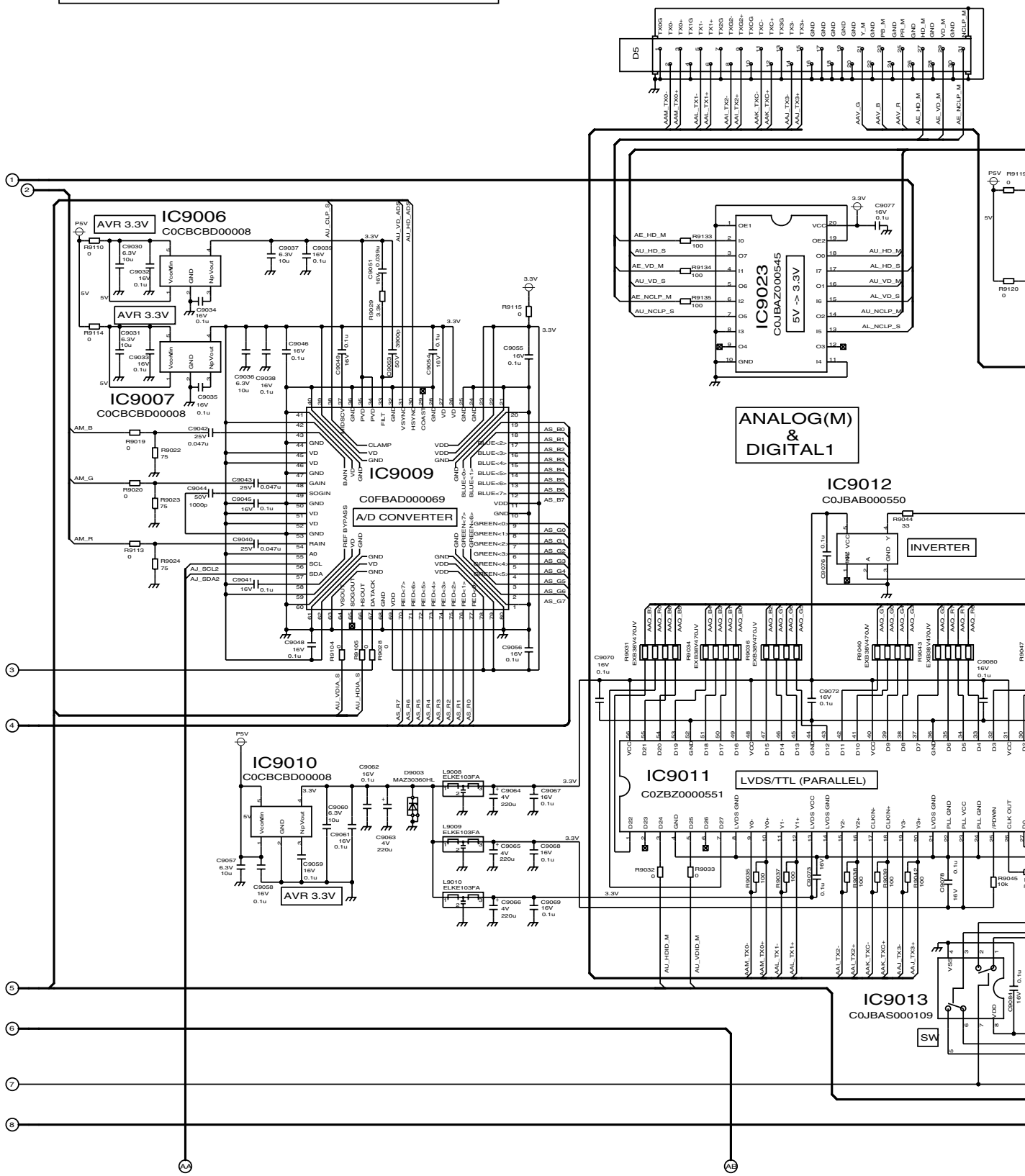
TH-42PHD6/TH-42PHW6
D-BOARD (1 of 15) Schematic Diagram



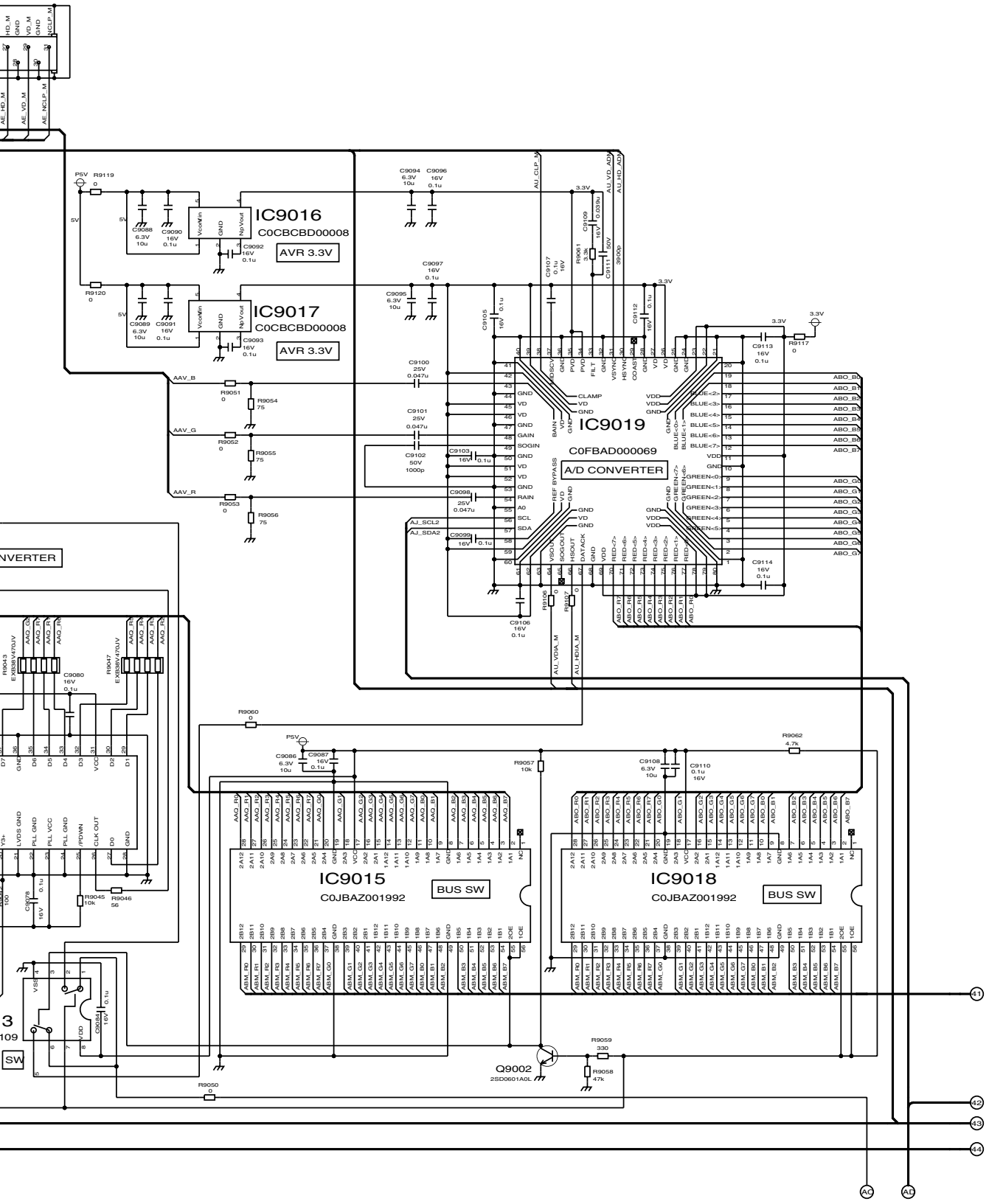
TH-42PHD6/TH-42PHW6
D-BOARD (1 of 15)
Schematic Diagram

14.25. D-Board (2 of 15) Schematic Diagram

D-BOARD TZTNP01QJSU (2/15)



TH-42PHD6/TH-42PHW6 D-BOARD (2 of 15) Schematic Diagram

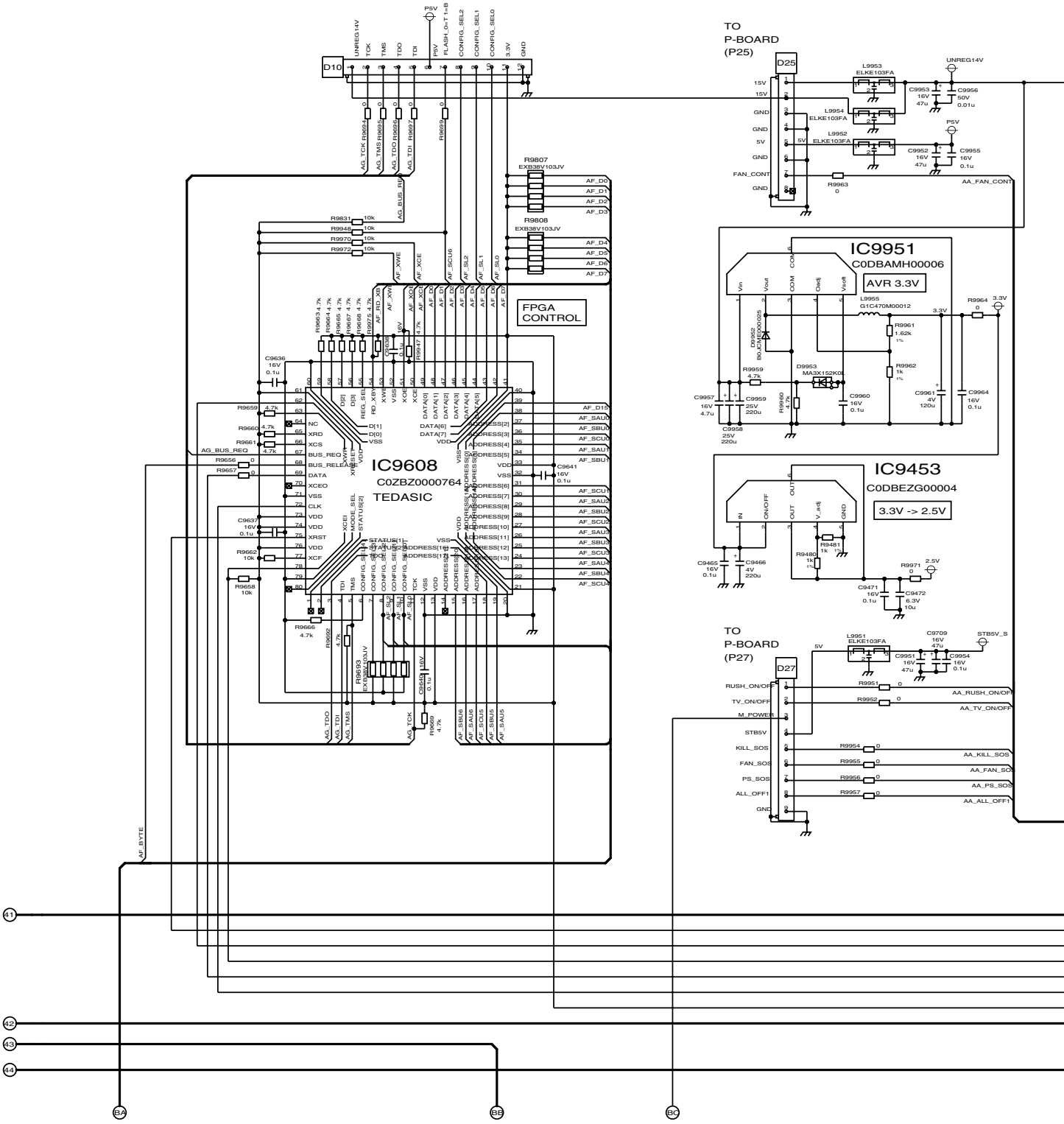


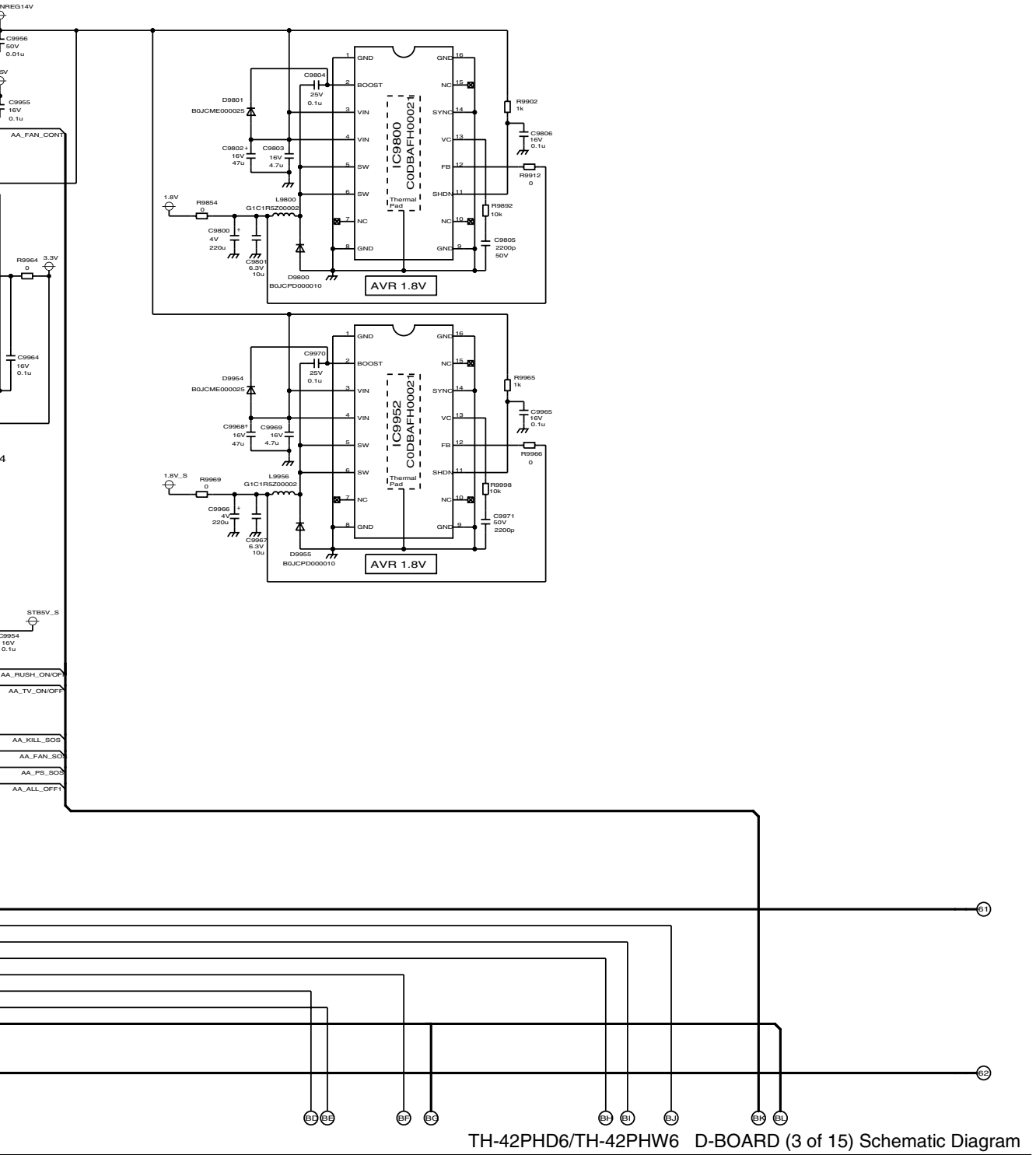
TH-42PHD6/TH-42PHW6 D-BOARD (2 of 15) Schematic Diagram

12 13 14 15

14.26. D-Board (3 of 15) Schematic Diagram

⚠ D-BOARD TZTNP01QJSU (3/15)



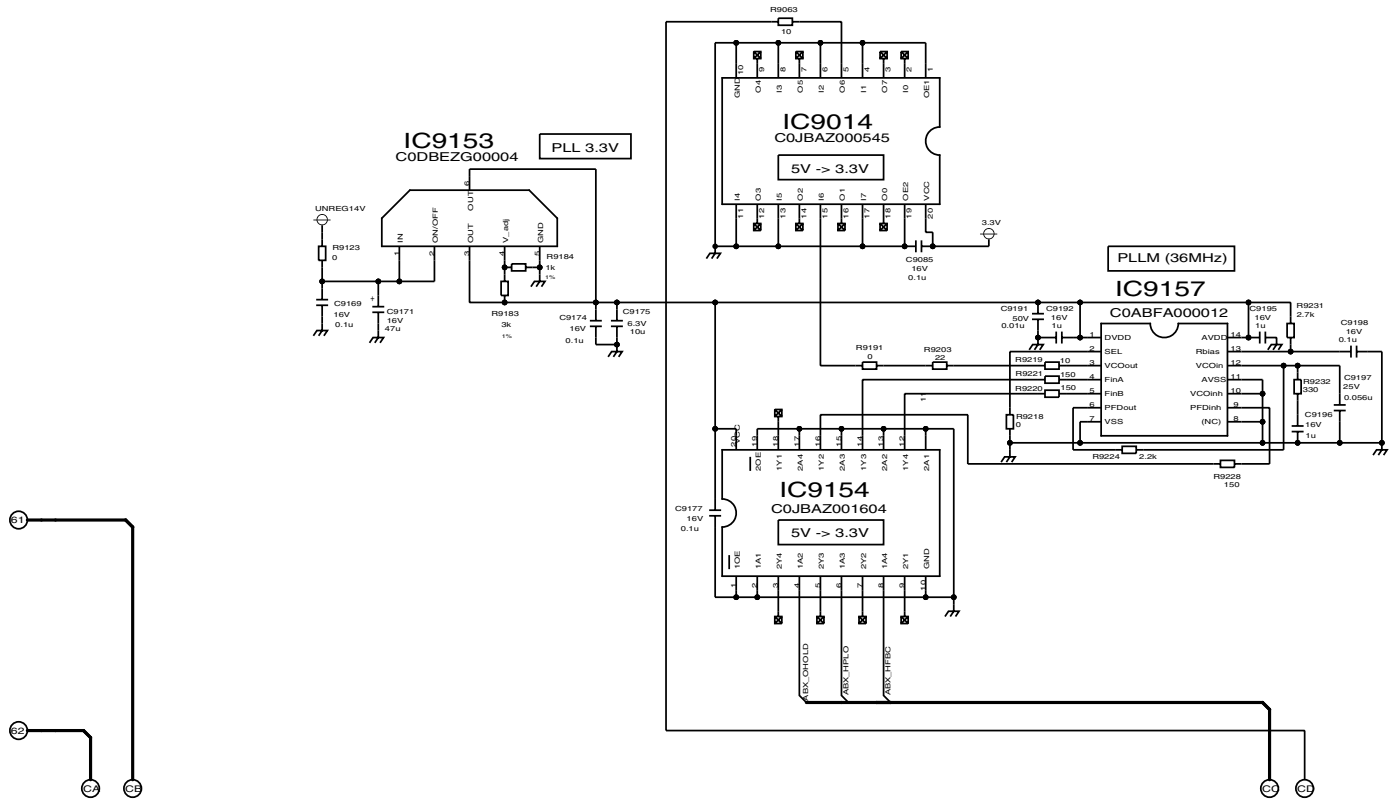


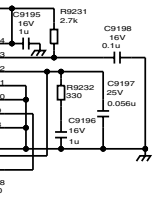
TH-42PHD6/TH-42PHW6 D-BOARD (3 of 15) Schematic Diagram

20 21 22 23

14.27. D-Board (4 of 15) Schematic Diagram

⚠ D-BOARD TZTNP01QJSU (4/15)



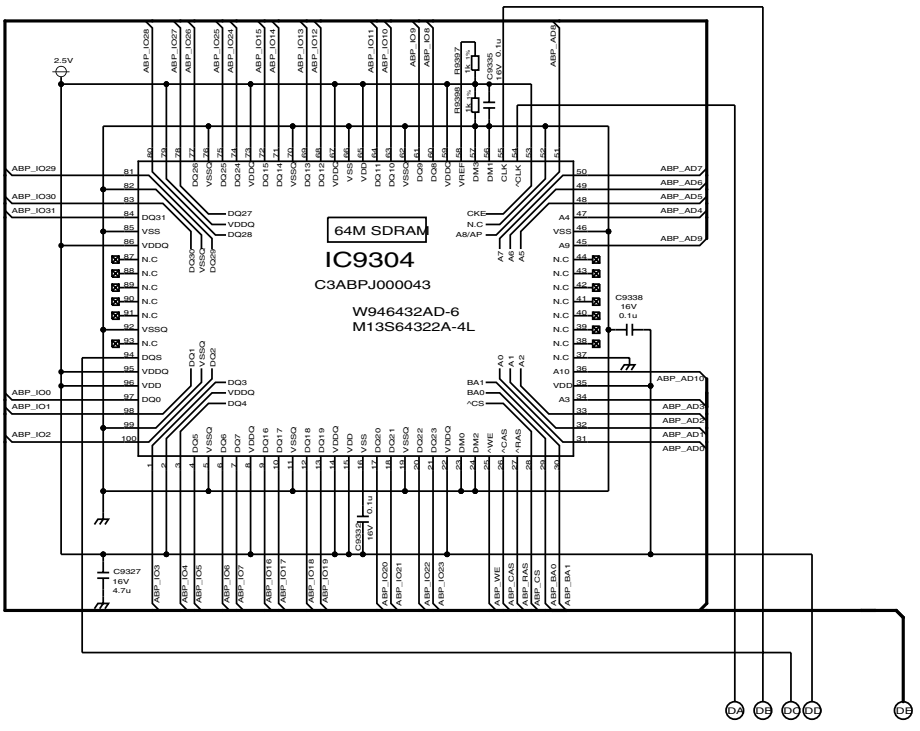


TH-42PHD6/TH-42PHW6
D-BOARD (4 of 15) Schematic Diagram

27 28 29 30

14.28. D-Board (5 of 15) Schematic Diagram

⚠ D-BOARD TZTNP01QJSU (5/15)



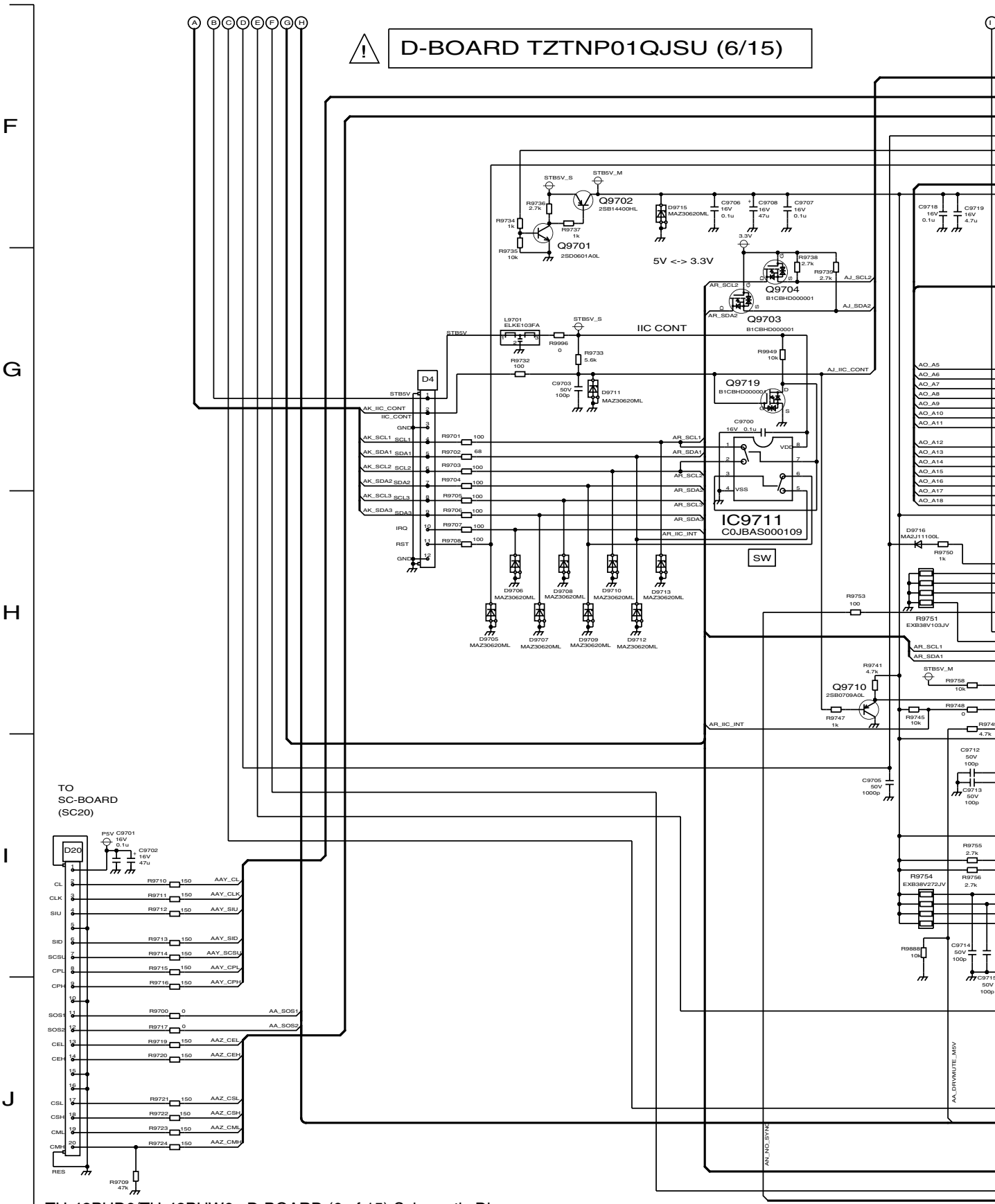
TH-42PHD6/TH-42PHW6
D-BOARD (5 of 15) Schematic Diagram

46 47 48 49

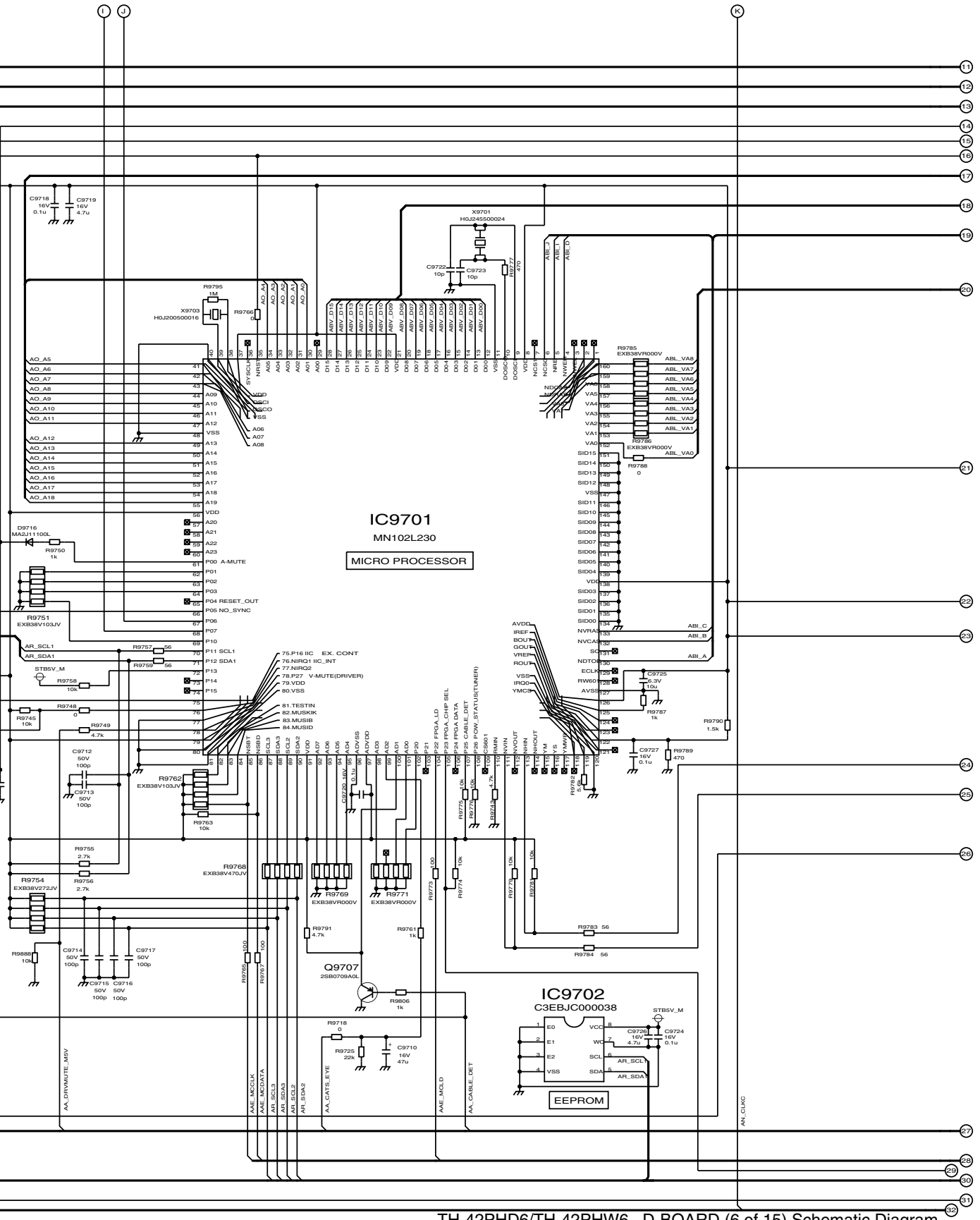
TH-42PHD6/TH-42PHW6
D-BOARD (5 of 15) Schematic Diagram

50 51 52 53

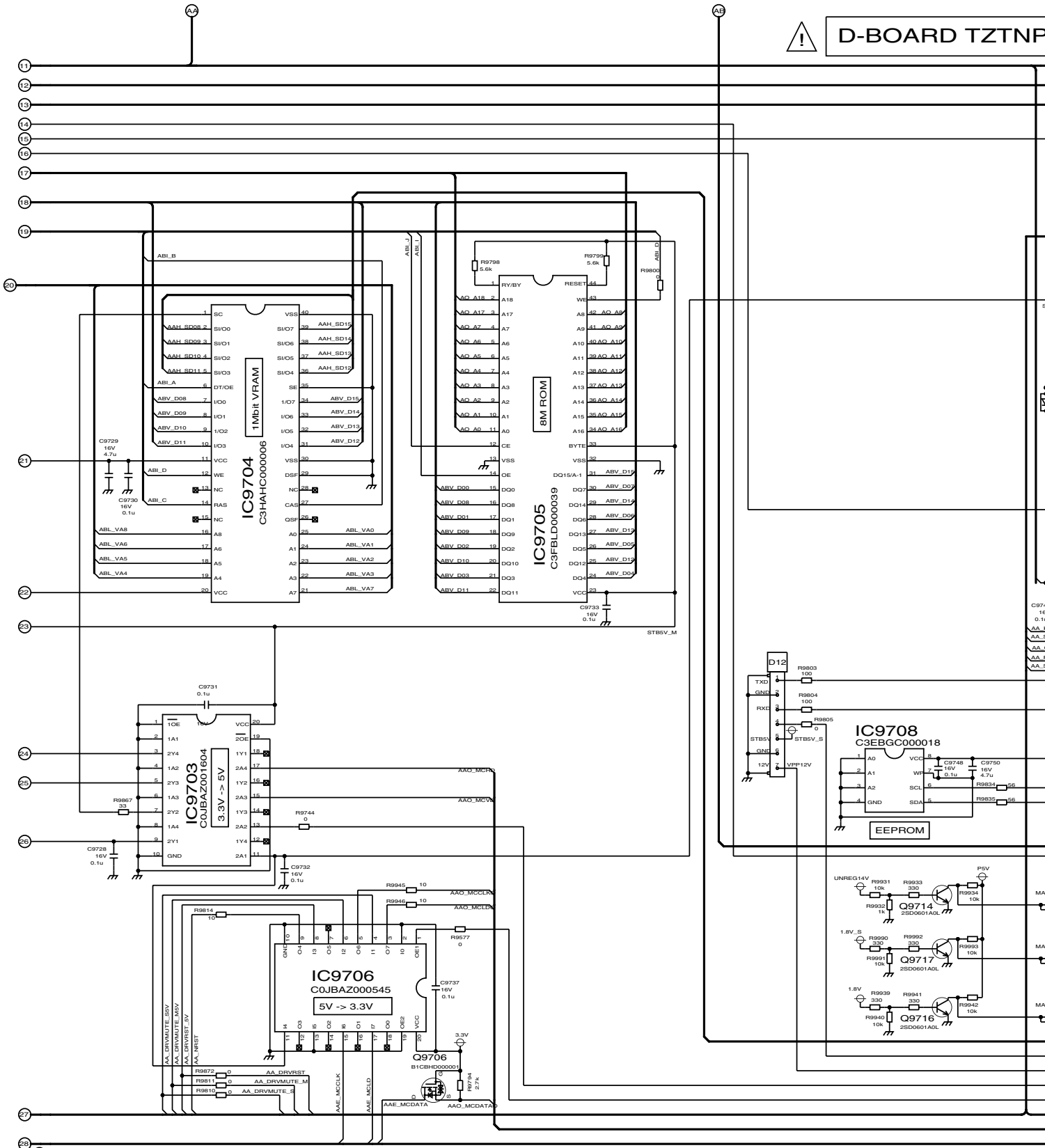
14.29. D-Board (6 of 15) Schematic Diagram



TH-42PHD6/TH-42PHW6 D-BOARD (6 of 15) Schematic Diagram

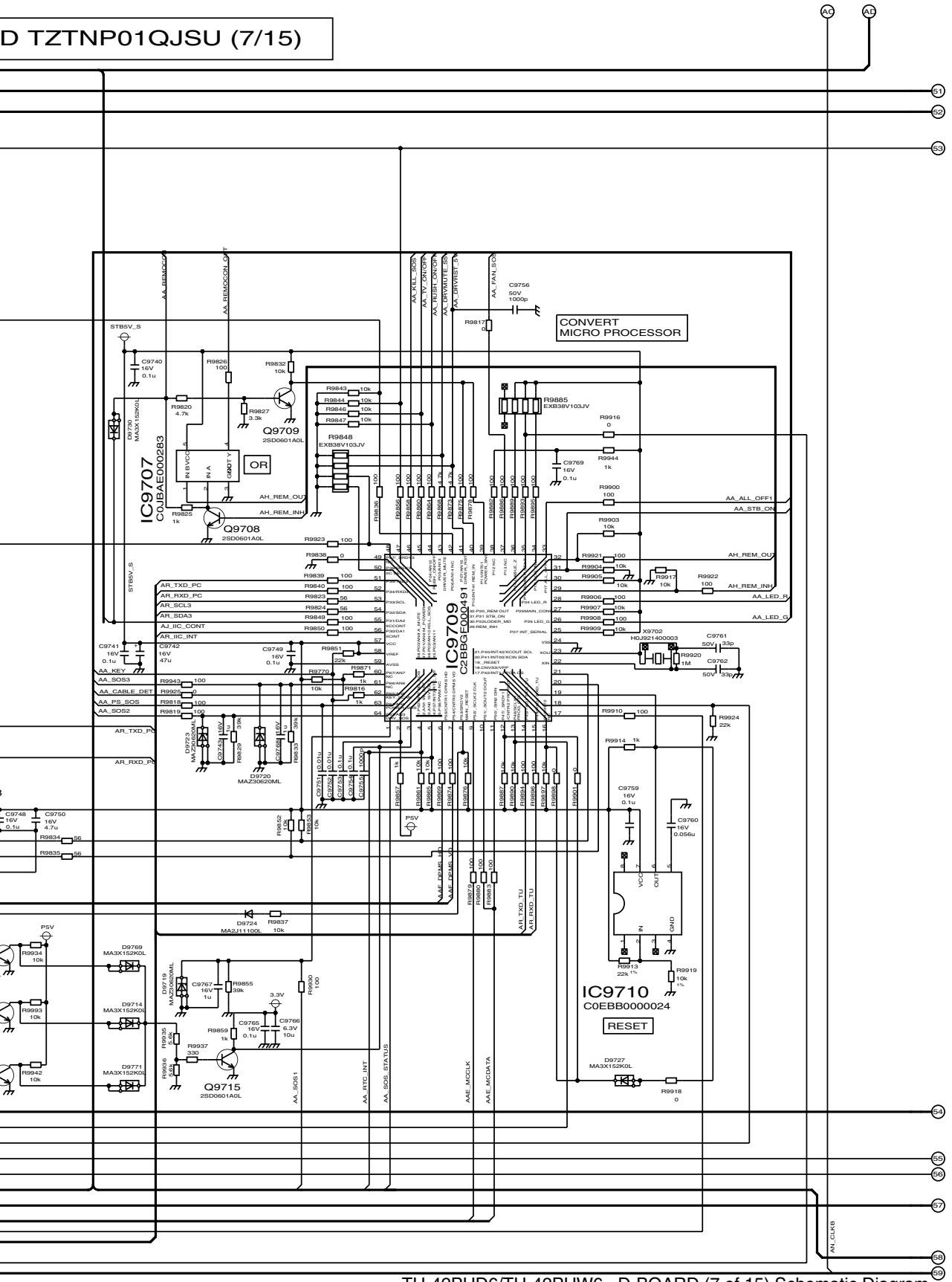

IC9701
MN102L230
MICRO PROCESSOR
IC9702
C3EBJC000038
EEPROM
Q9707
2SB0709A0L
X9701
H0J245500024
X9703
H0J200500016
R9795
1M
R9766
0
C9722
10p
C9723
10p
R9777
470
C9718
16V
0.1u
C9719
16V
4.7u
R9785
EXB38VR000V
R9786
EXB38VR000V
R9788
0
D9716
MA2J1100L
R9750
1k
R9751
EXB38V103JV
R9757
56
R9759
56
STB5V_M
R9758
10k
R9748
0
R9745
10k
R9749
4.7k
R9762
EXB38V103JV
R9763
10k
C9712
50V
100p
C9713
50V
100p
R9755
2.7k
R9756
2.7k
R9754
EXB38V272JV
R9768
EXB38V470JV
R9769
EXB38VR000V
R9771
EXB38VR000V
R9791
4.7k
R9761
1k
R9783
56
R9784
56
R9790
1.5k
R9789
470
C9725
6.3V
10u
R9787
1k
C9727
16V
0.1u
R9888
10k
C9714
50V
100p
C9715
50V
100p
C9716
50V
100p
C9717
50V
100p
R9765
100
R9767
100
R9806
1k
R9718
0
R9725
22k
C9710
16V
47u
C9726
16V
4.7u
C9724
16V
0.1u
AR_SCL1
AR_SDA1
AA_DRVMUTE_MSV
AAE_MCCLK
AAE_MCDATA
AR_SCL3
AR_SDA3
AR_SCL2
AR_SDA2
AA_CATS_EYE
AAE_MCLD
AA_CABLE_DET
AN_CLKC
ABL_VA8
ABL_VA7
ABL_VA6
ABL_VA5
ABL_VA4
ABL_VA3
ABL_VA2
ABL_VA1
ABL_VA0
ABI_C
ABI_B
ABI_A
P00 A-MUTE
P04 RESET_OUT
P05 NO_SYNC
75.P16 IIC EX. CONT
76.NIRQ1 IIC_INT
77.NIRQ2
78.P27 V-MUTE(DRIVER)
79.VDD
80.VSS
81.TESTIN
82.MUSKIK
83.MUSIB
84.MUSID
P22 FRQA_LD
P23 FRQA_CHIP SEL
P24 FRQA DATA
P25 CABLE_DET
P26 POW_STATUS(TUNER)

14.30. D-Board (7 of 15) Schematic Diagram



TH-42PHD6/TH-42PHW6 D-BOARD (7 of 15) Schematic Diagram

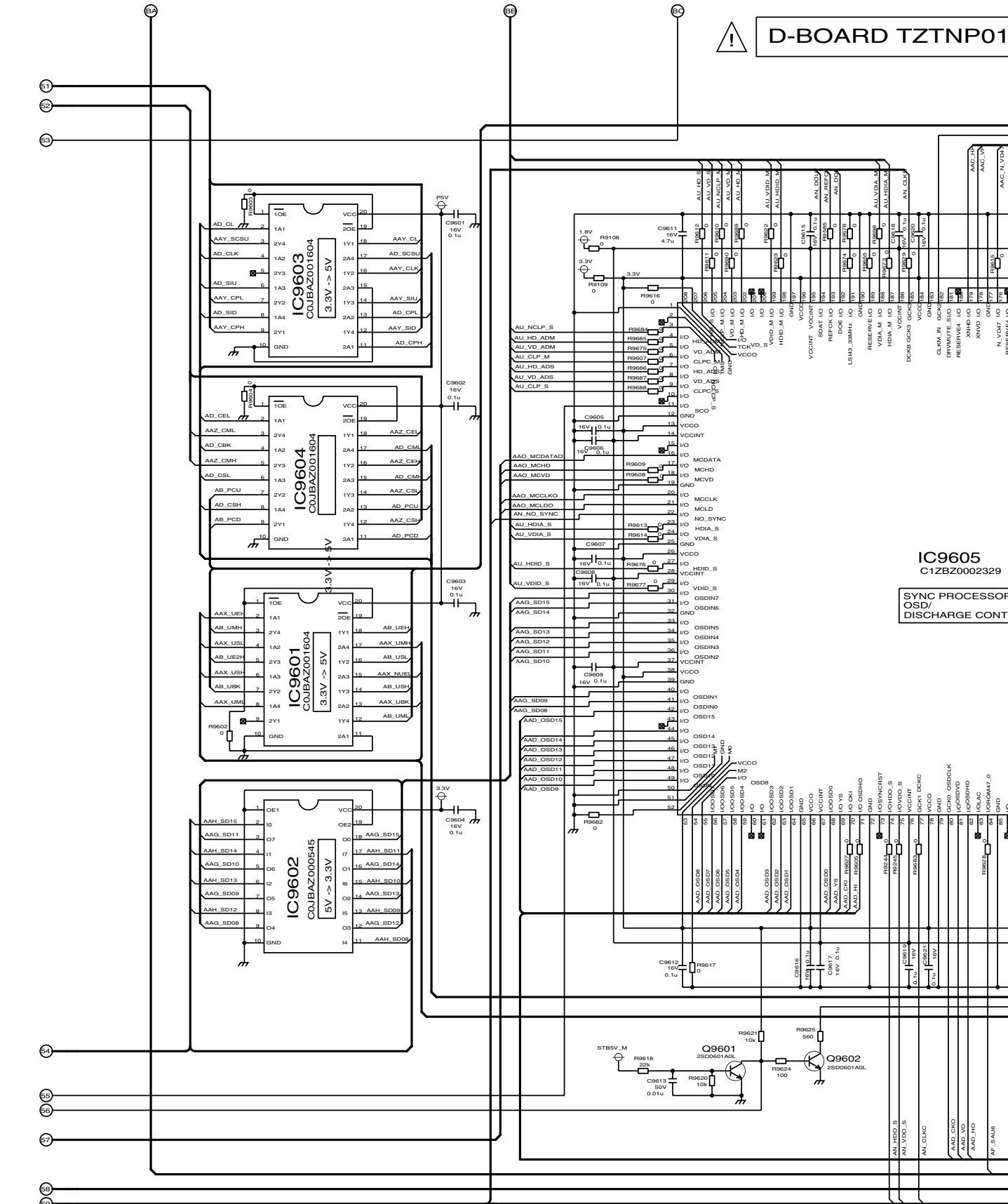
8 9 10 11 12



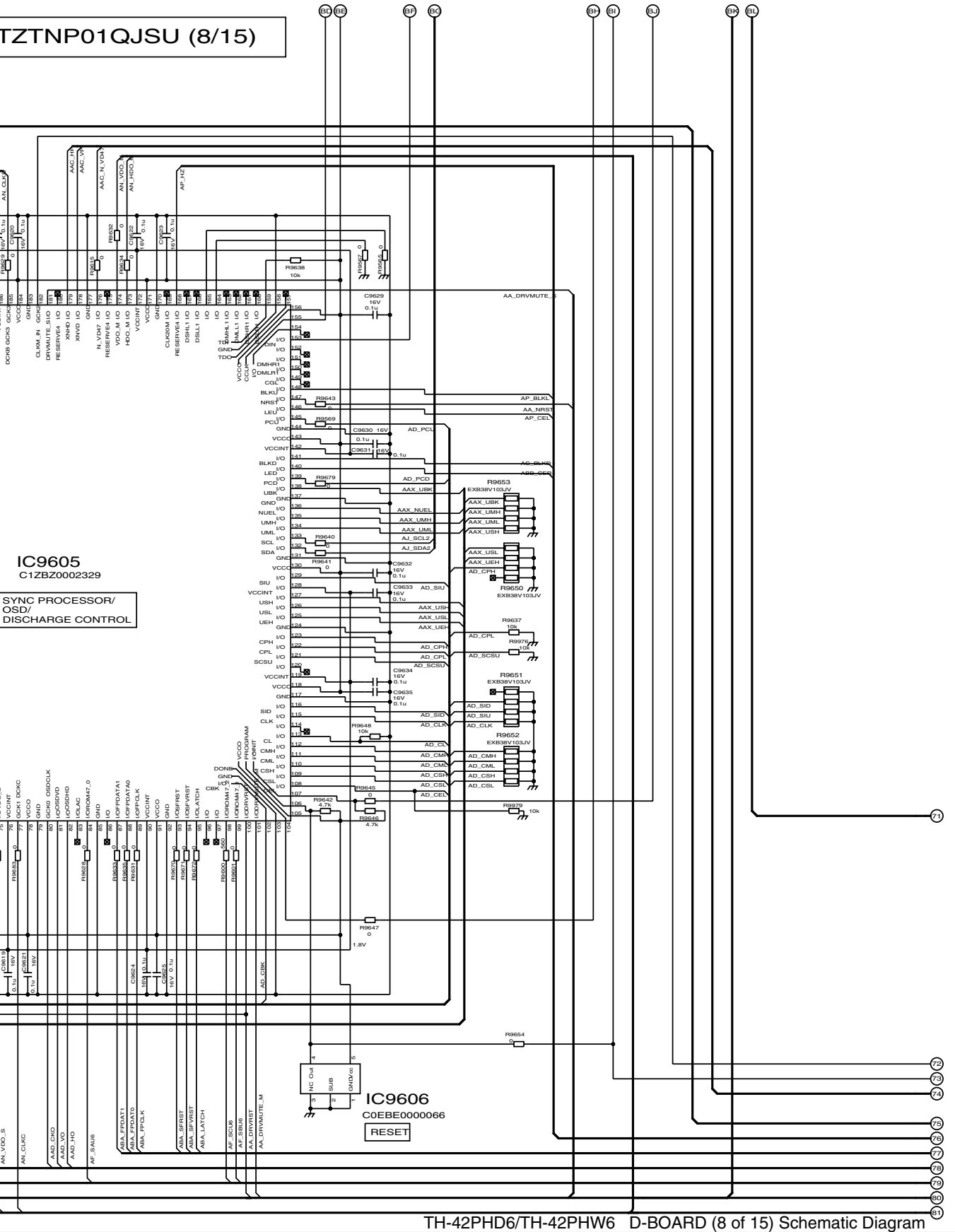
TH-42PHD6/TH-42PHW6 D-BOARD (7 of 15) Schematic Diagram

12 13 14 15

14.31. D-Board (8 of 15) Schematic Diagram

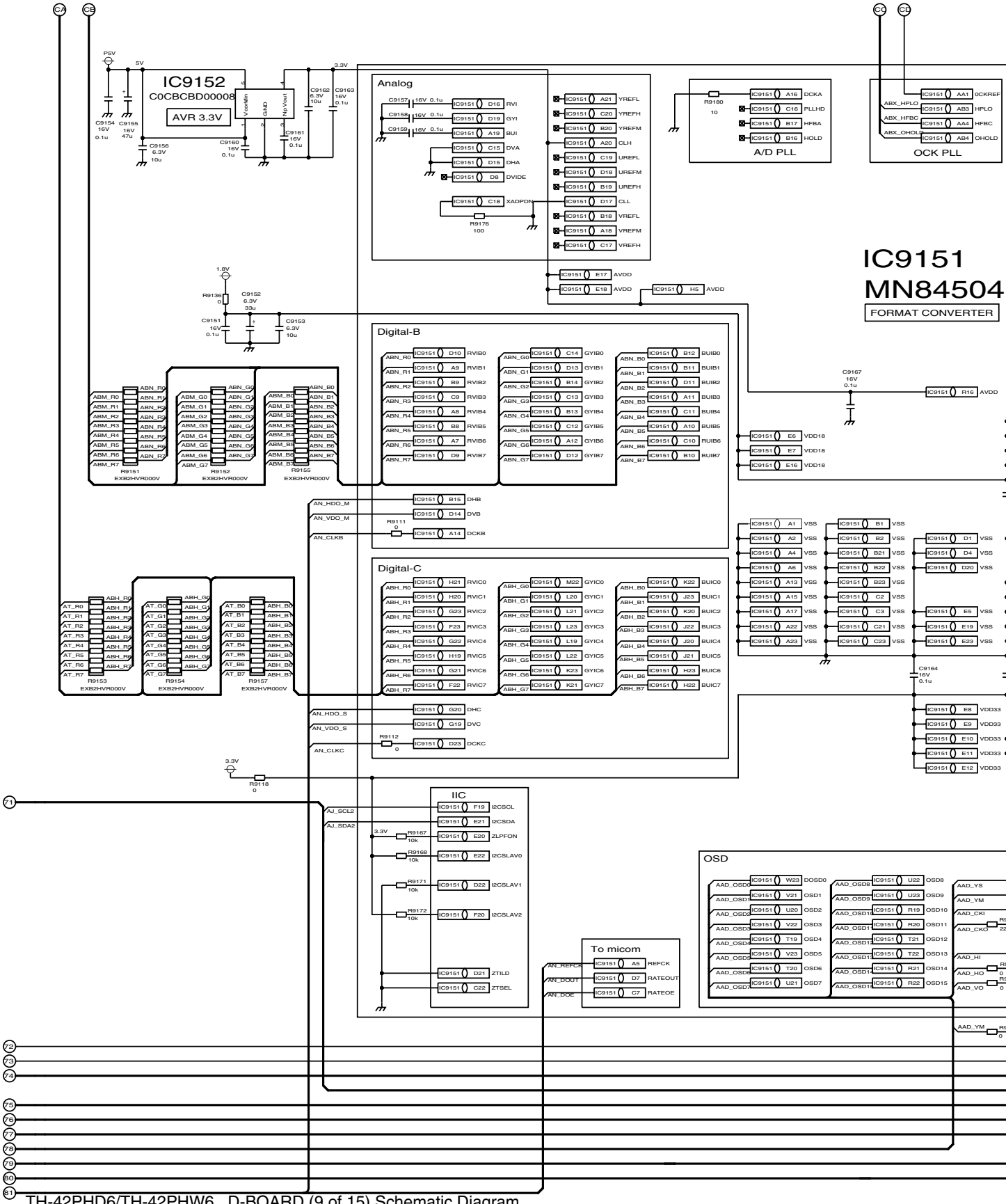


TZTNP01QJSU (8/15)

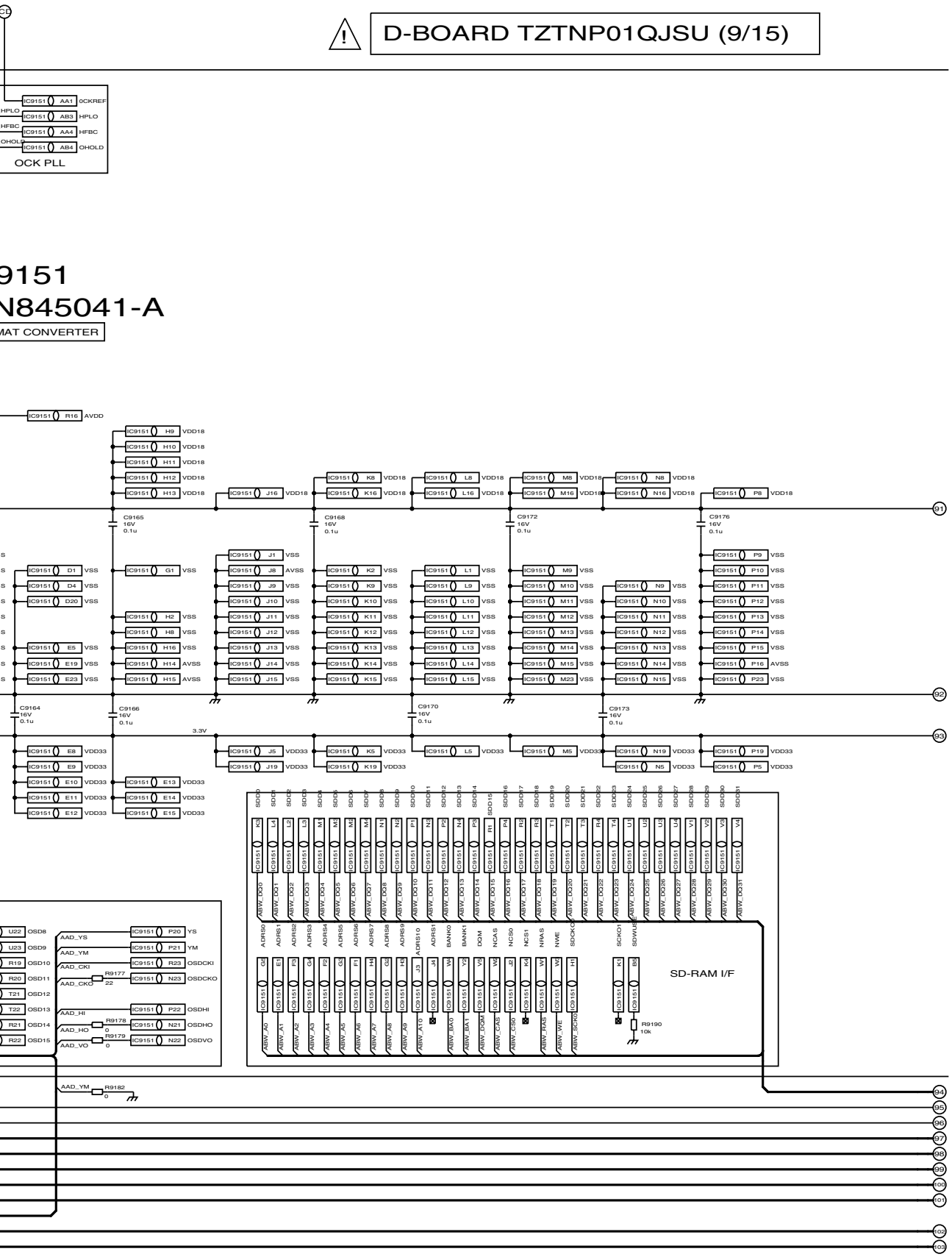


TH-42PHD6/TH-42PHW6 D-BOARD (8 of 15) Schematic Diagram

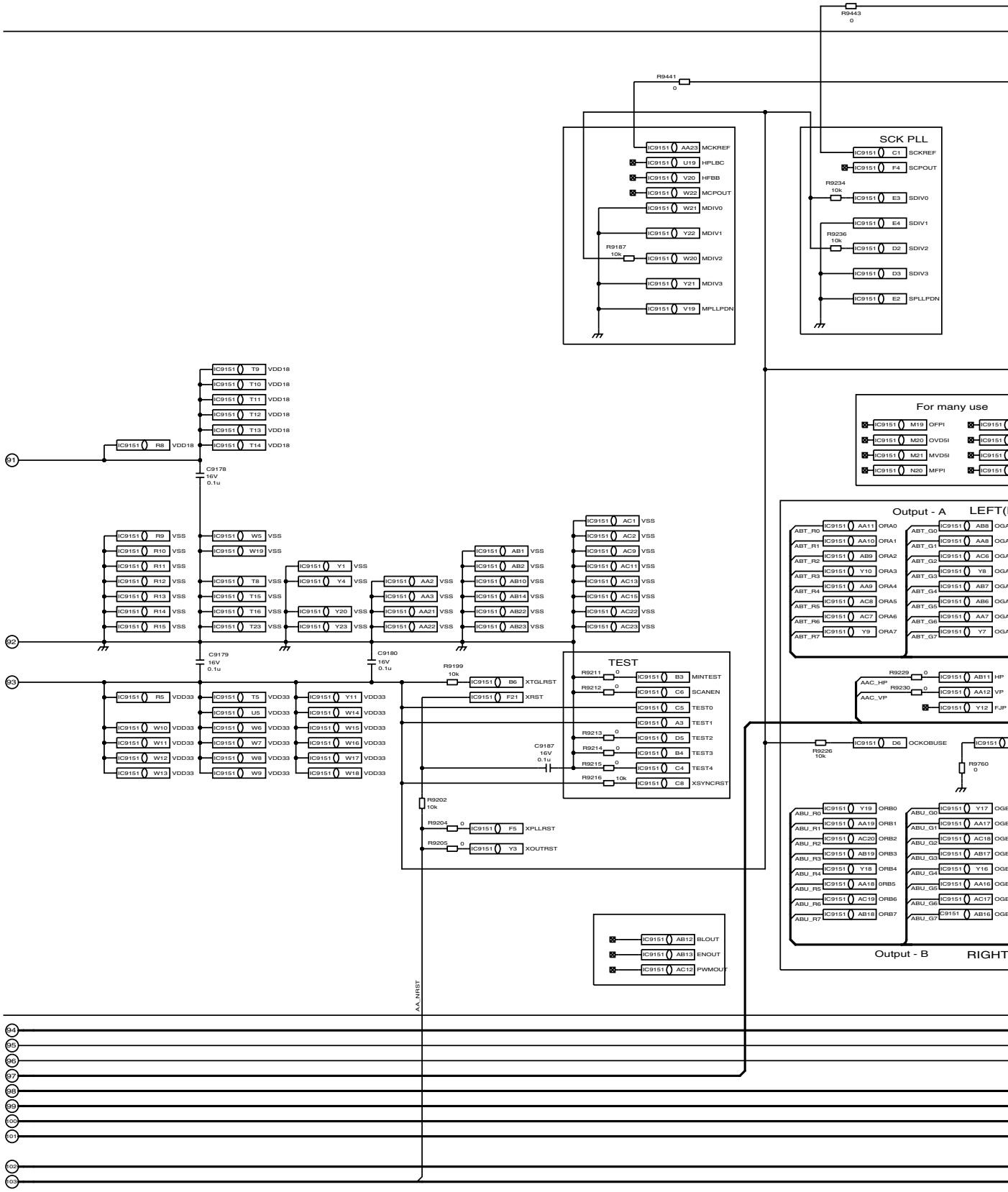
14.32. D-Board (9 of 15) Schematic Diagram



TH-42PHD6/TH-42PHW6 D-BOARD (9 of 15) Schematic Diagram

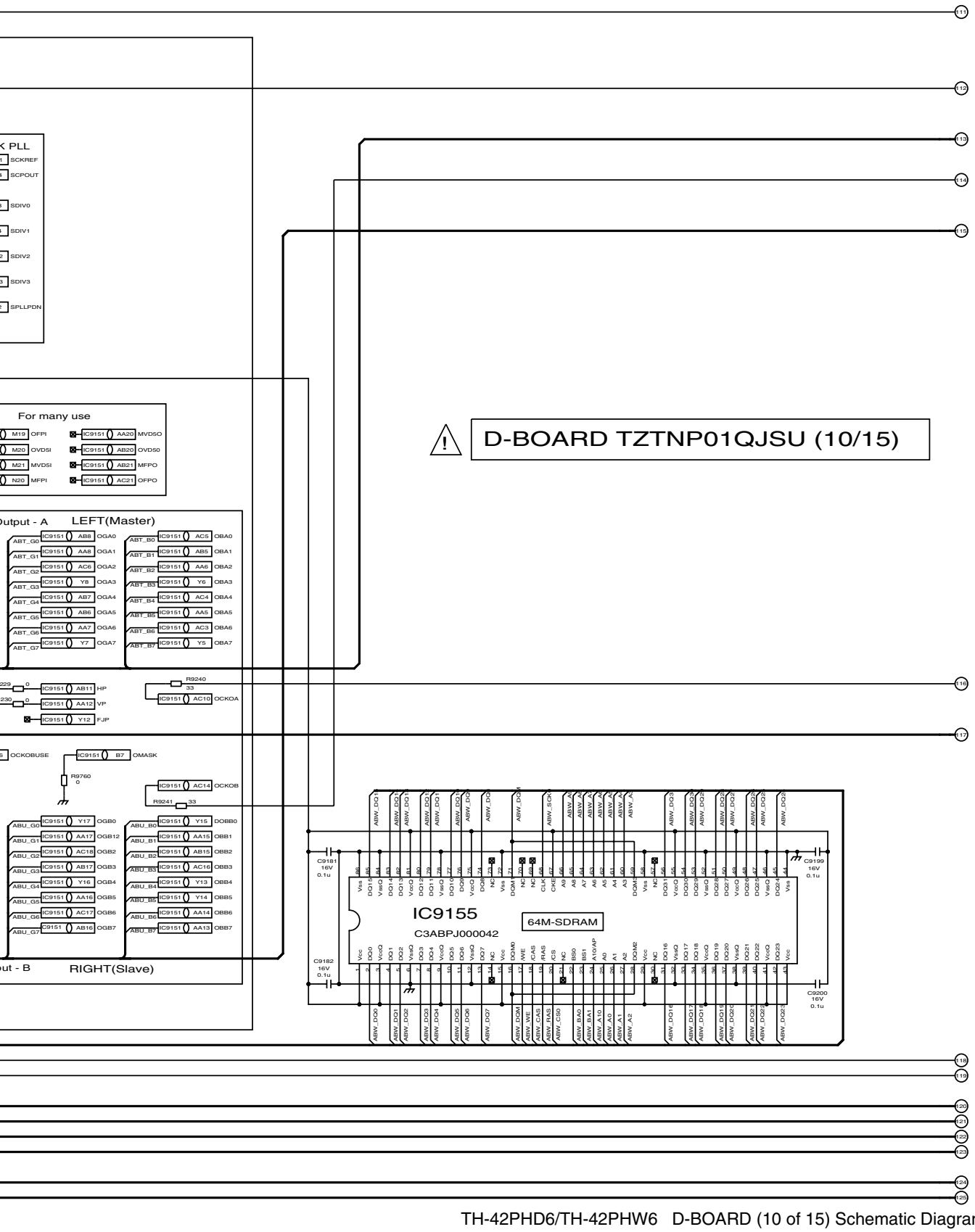

OCK PLL
9151
N845041-A
MAT CONVERTER
SD-RAM I/F

14.33. D-Board (10 of 15) Schematic Diagram

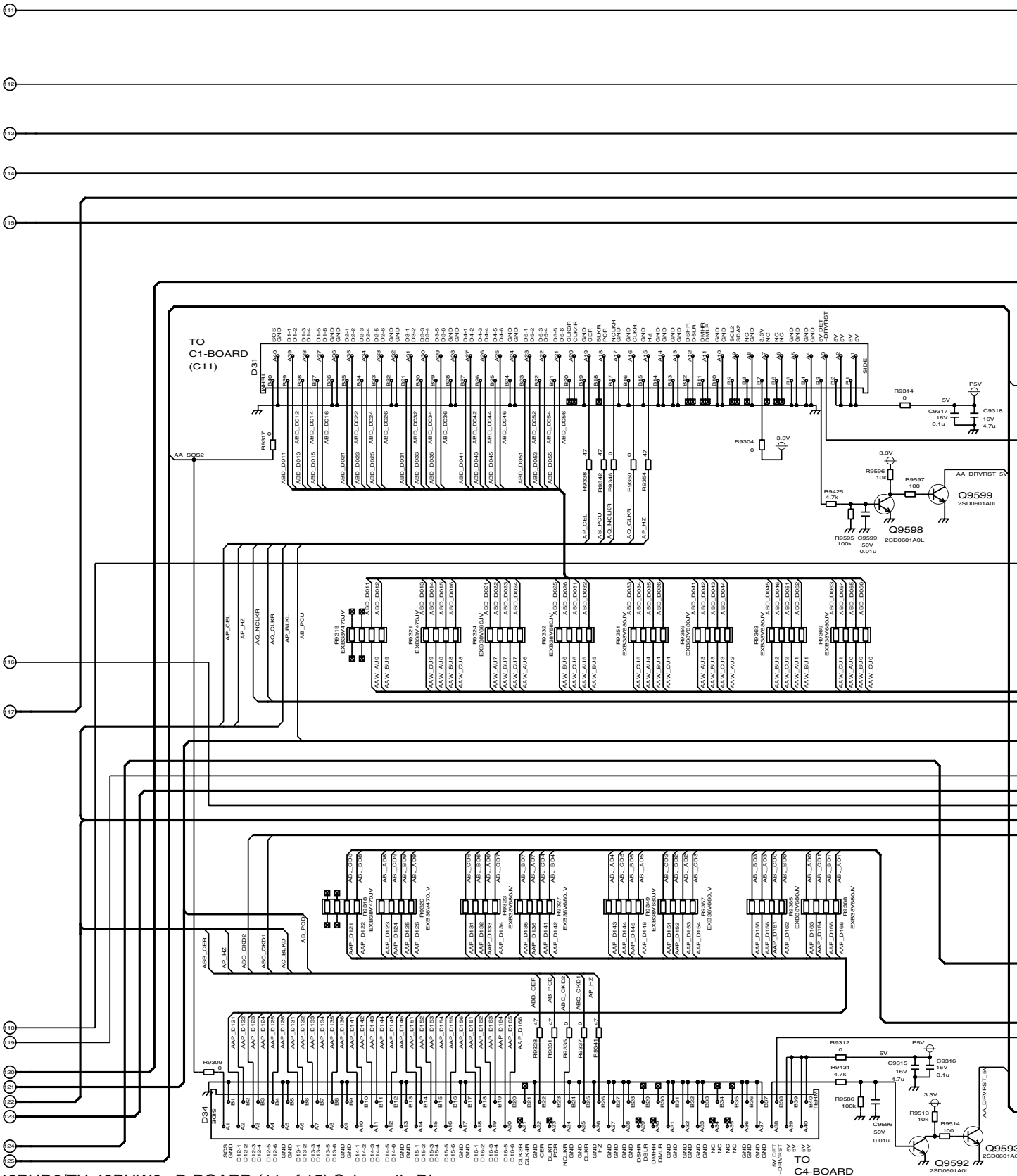


TH-42PHD6/TH-42PHW6 D-BOARD (10 of 15) Schematic Diagram

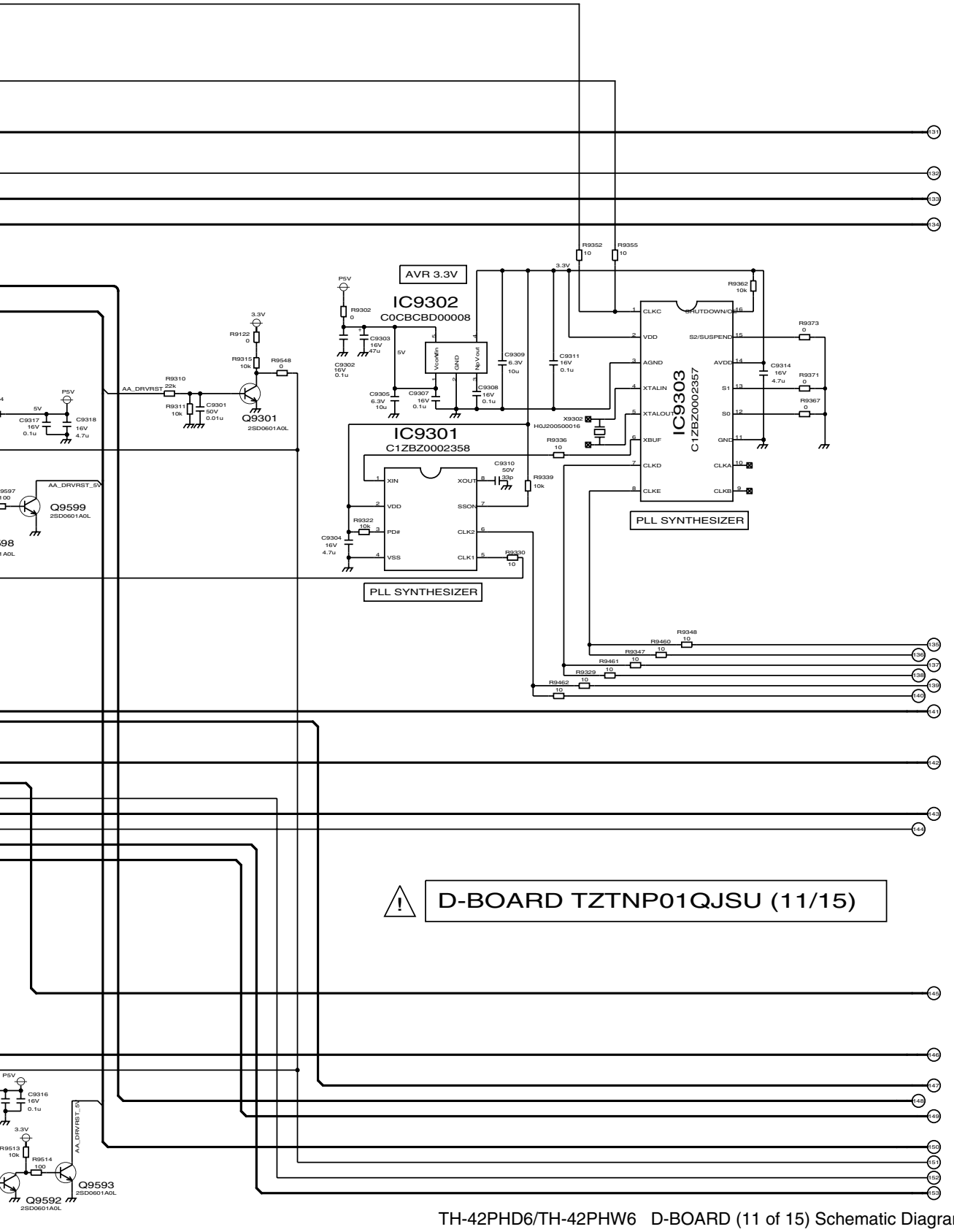
31 32 33 34


D-BOARD TZTNP01QJSU (10/15)
IC9155
C3ABPJ000042
64M-SDRAM
For many use
LEFT(Master)
RIGHT(Slave)

14.34. D-Board (11 of 15) Schematic Diagram



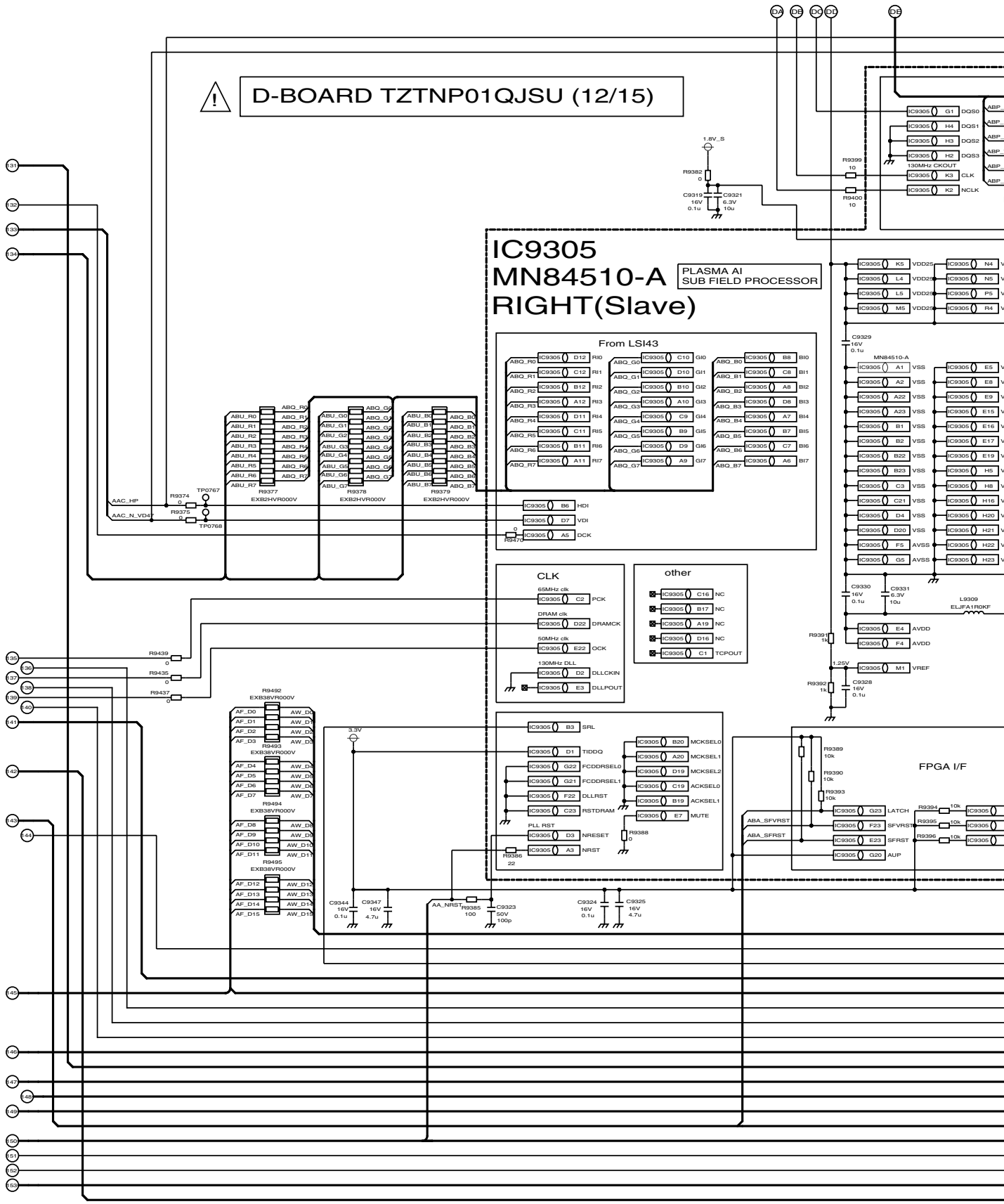
TH-42PHD6/TH-42PHW6 D-BOARD (11 of 15) Schematic Diagram



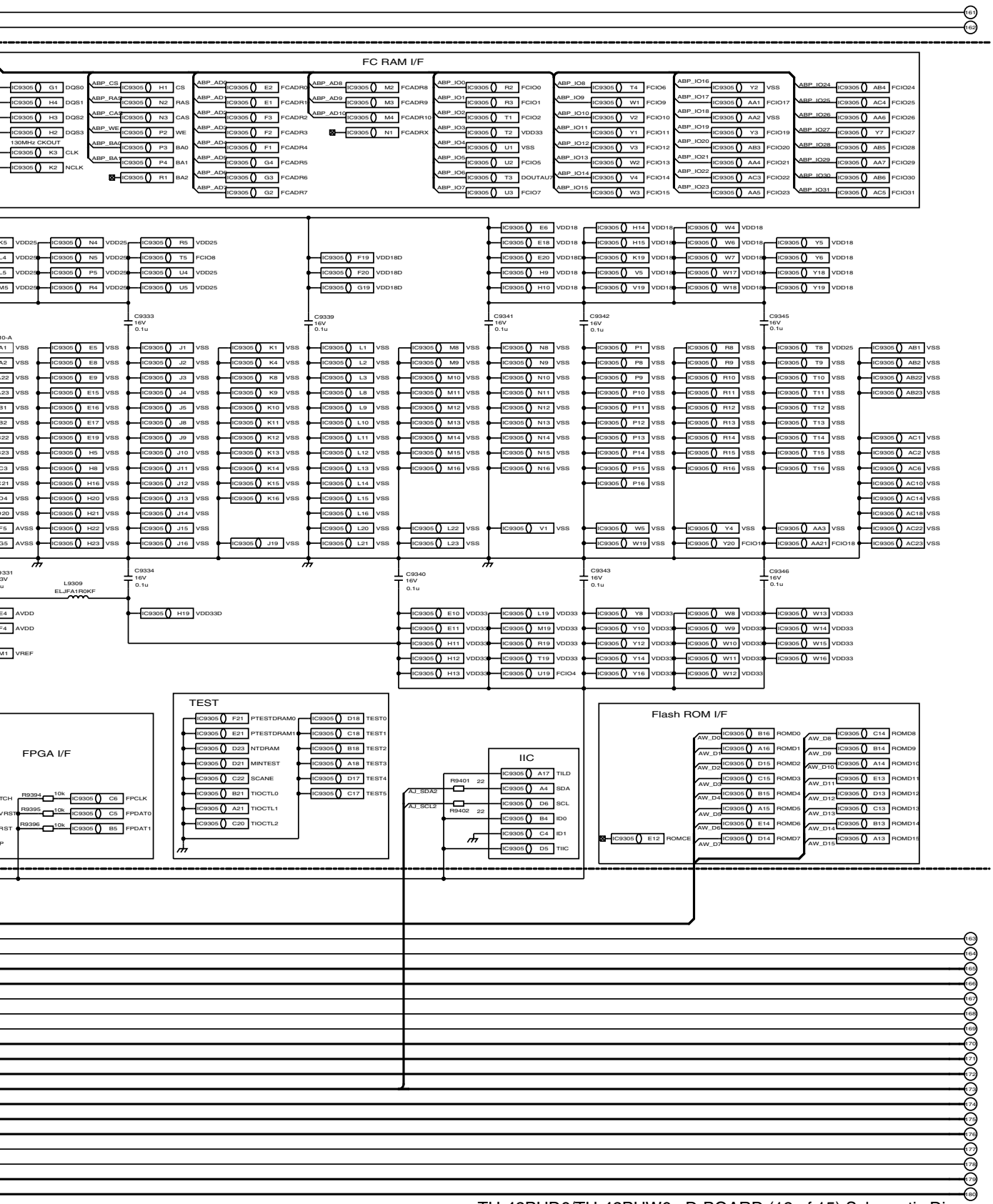
TH-42PHD6/TH-42PHW6 D-BOARD (11 of 15) Schematic Diagram

42 43 44 45

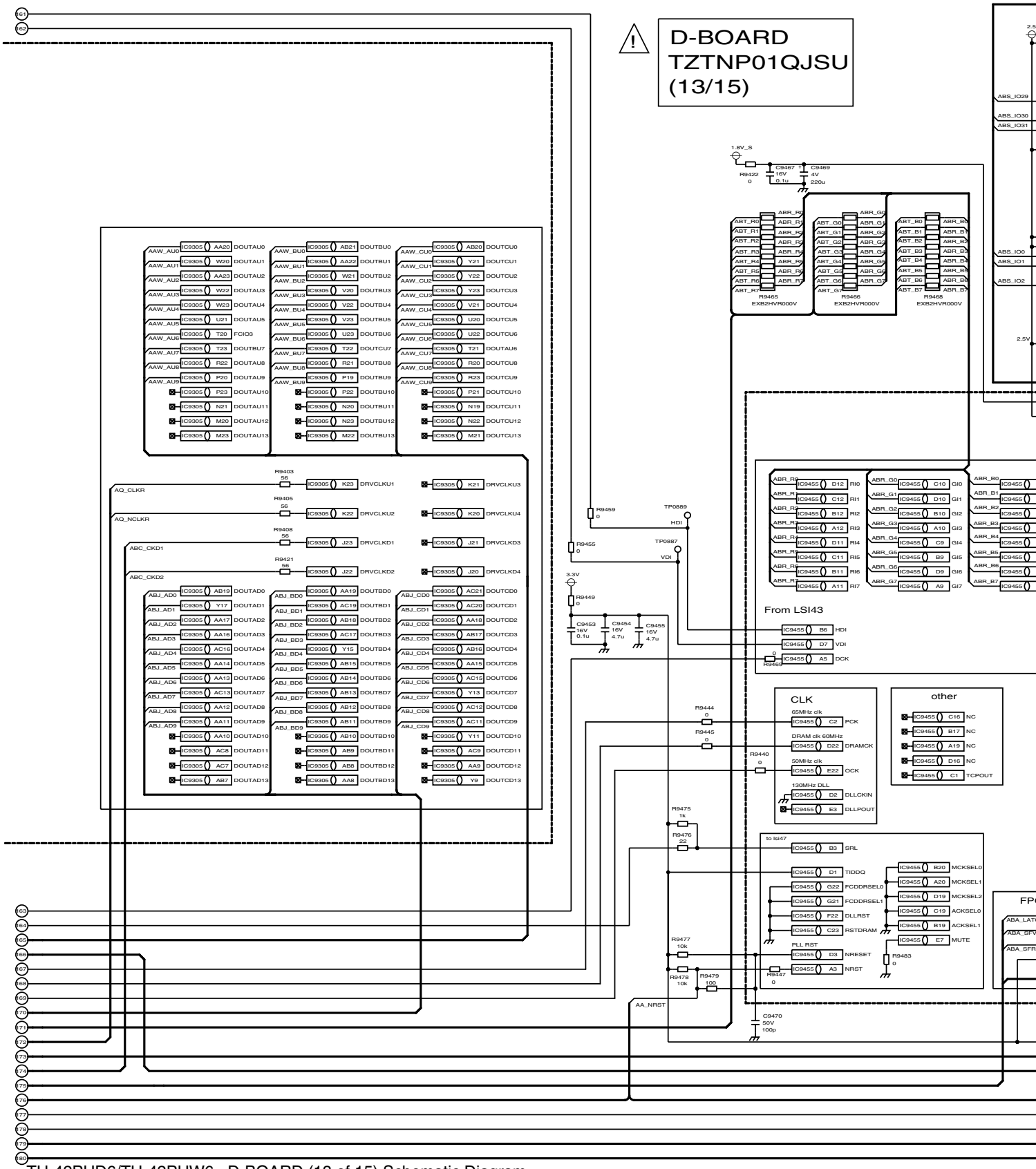
14.35. D-Board (12 of 15) Schematic Diagram



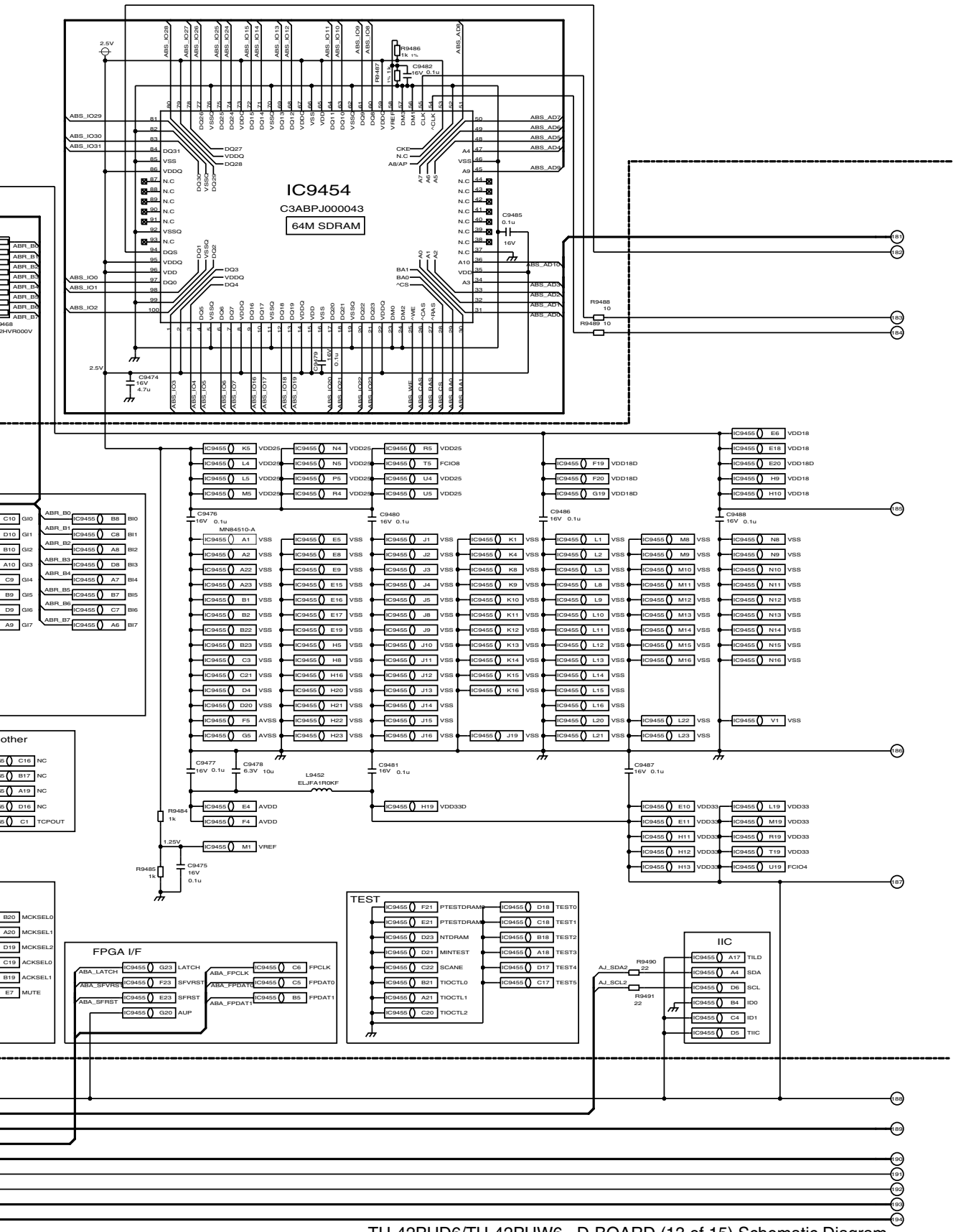
TH-42PHD6/TH-42PHW6 D-BOARD (12 of 15) Schematic Diagram


FC RAM I/F
TEST
FPGA I/F
IIC
Flash ROM I/F

14.36. D-Board (13 of 15) Schematic Diagram



TH-42PHD6/TH-42PHW6 D-BOARD (13 of 15) Schematic Diagram

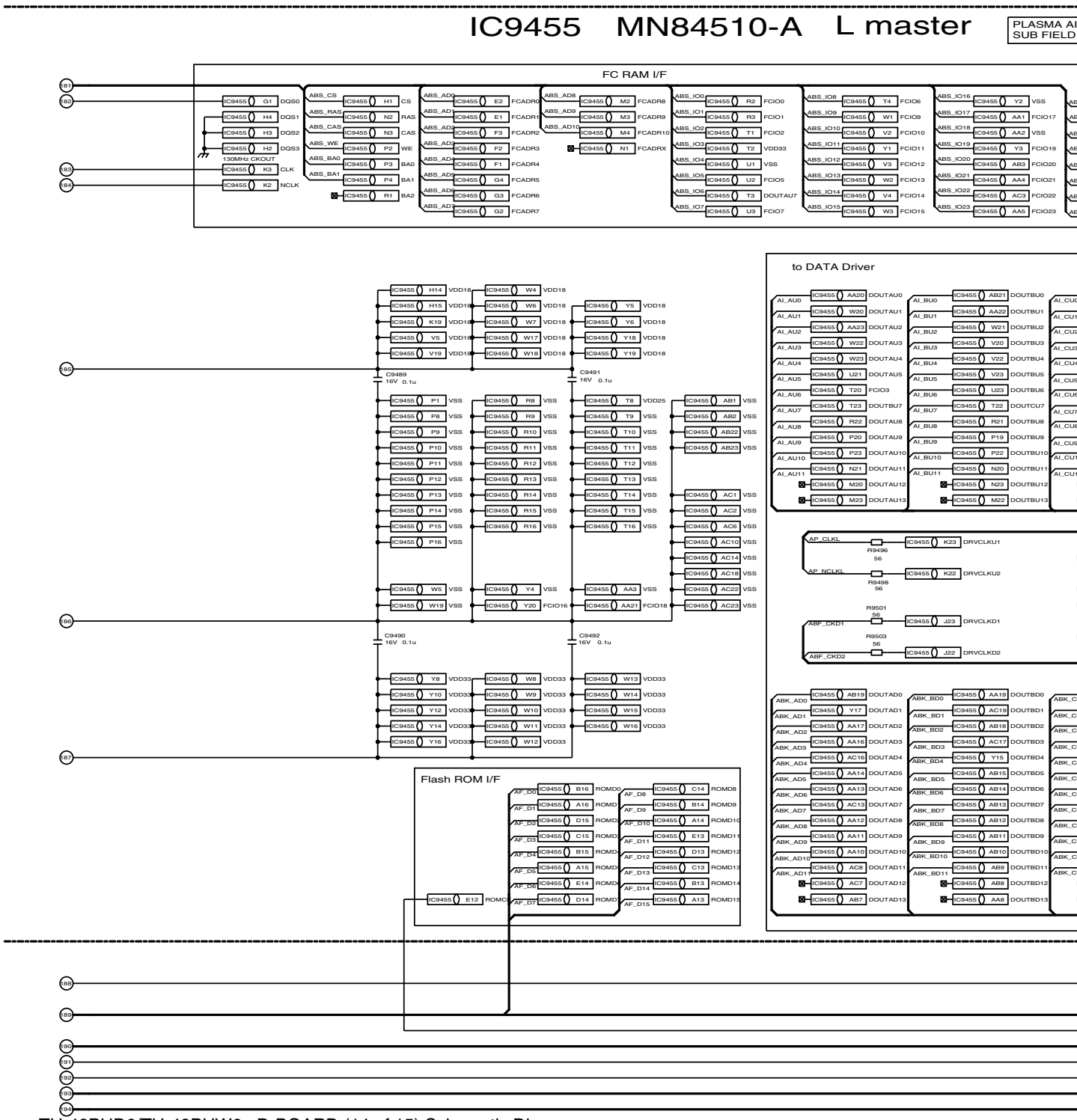


TH-42PHD6/TH-42PHW6 D-BOARD (13 of 15) Schematic Diagram

57 58 59 60

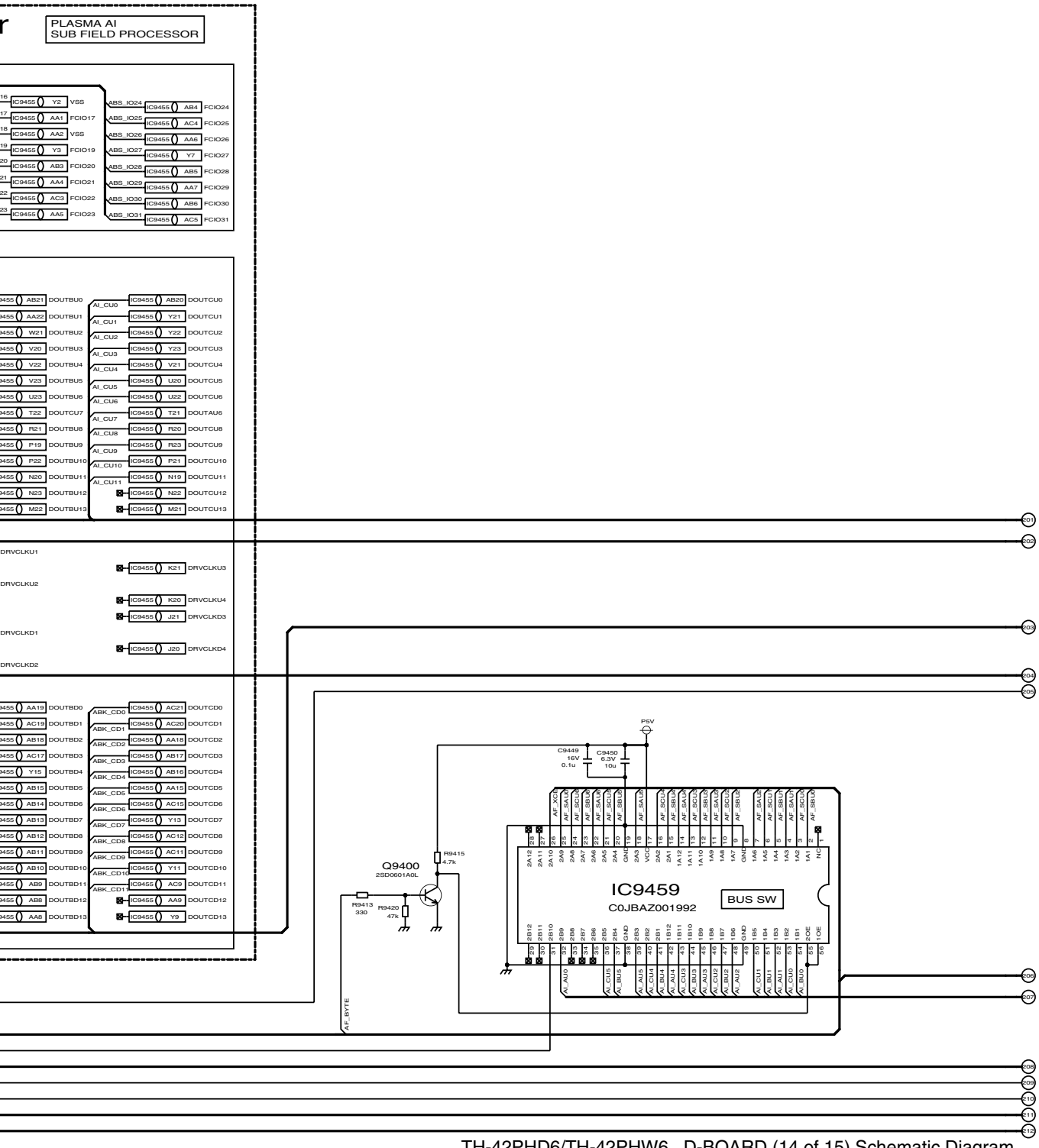
14.37. D-Board (14 of 15) Schematic Diagram

⚠ D-BOARD TZTNP01QJSU (14/15)



TH-42PHD6/TH-42PHW6 D-BOARD (14 of 15) Schematic Diagram

61 62 63 64

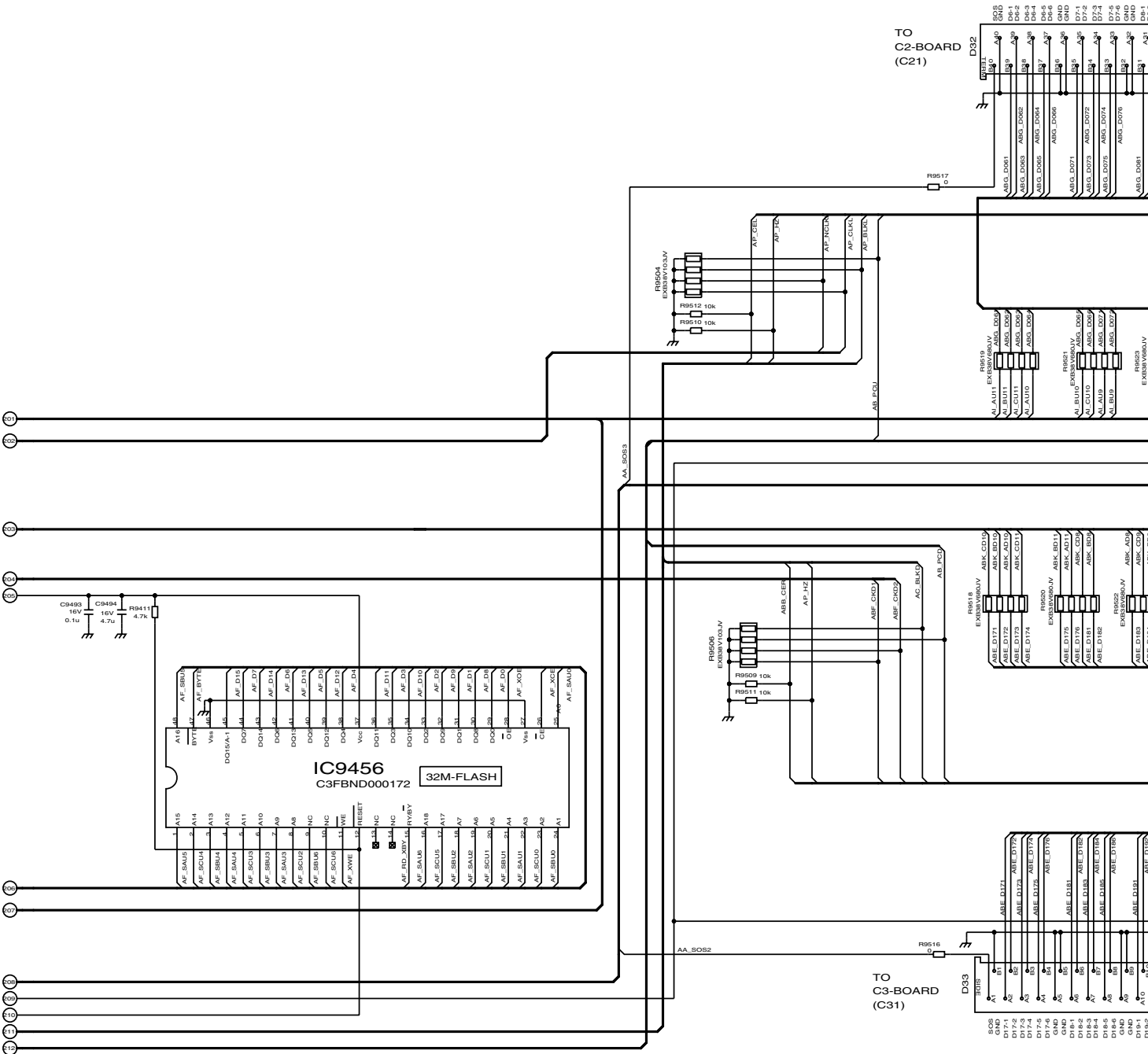


TH-42PHD6/TH-42PHW6 D-BOARD (14 of 15) Schematic Diagram

65 66 67 68

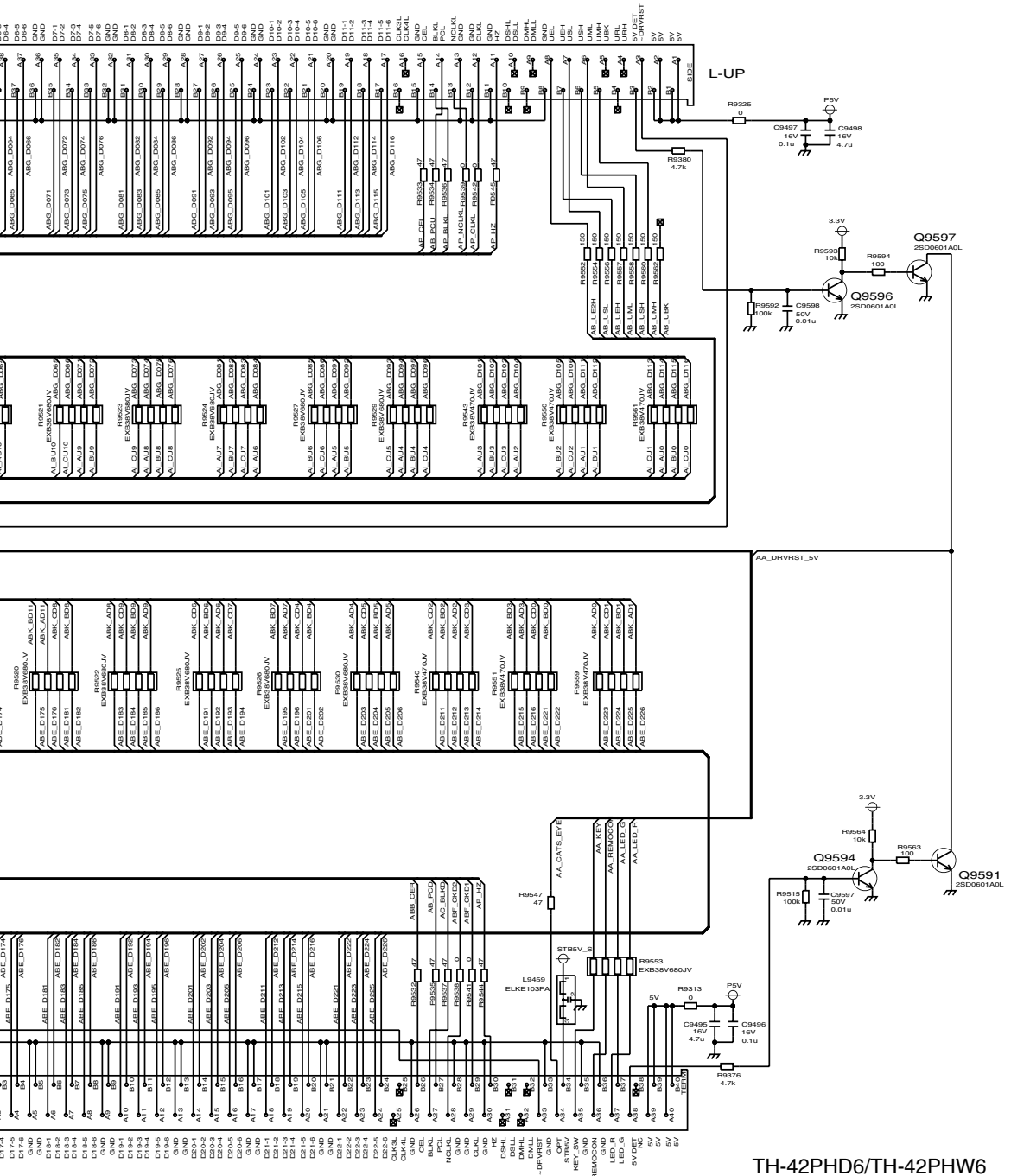
14.38. D-Board (15 of 15) Schematic Diagram

⚠ D-BOARD TZTNP01QJSU (15/15)



TH-42PHD6/TH-42PHW6 D-BOARD (15 of 15) Schematic Diagram

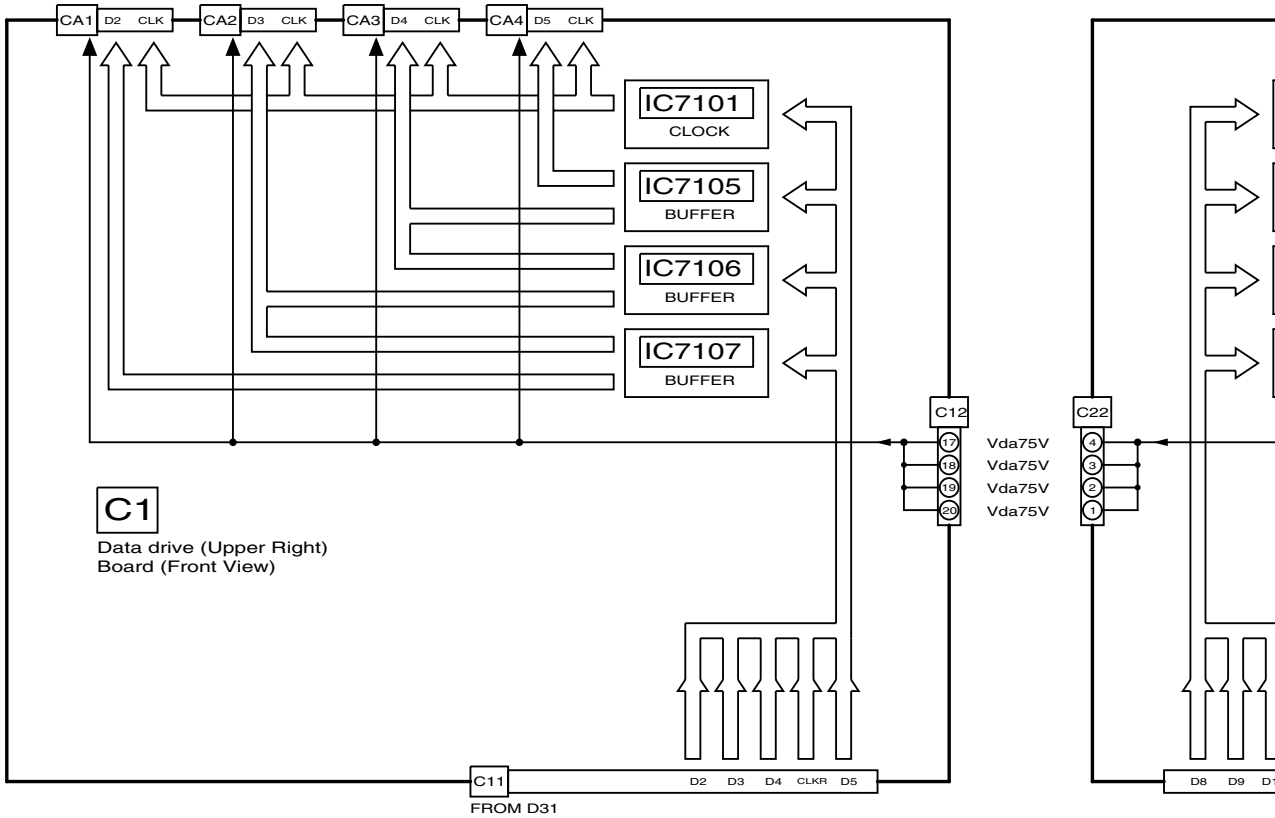
68 69 70 71 72

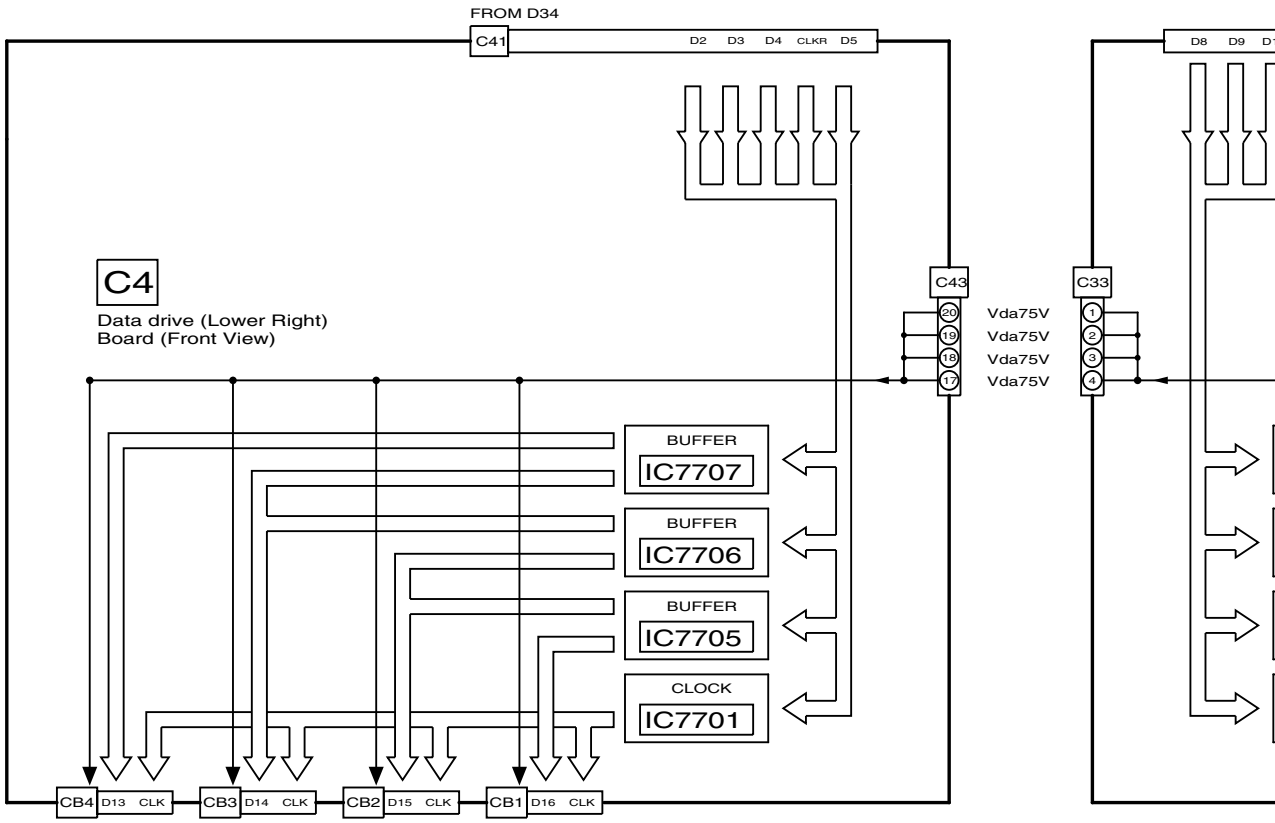


TH-42PHD6/TH-42PHW6
D-BOARD (15 of 15) Schematic Diagram

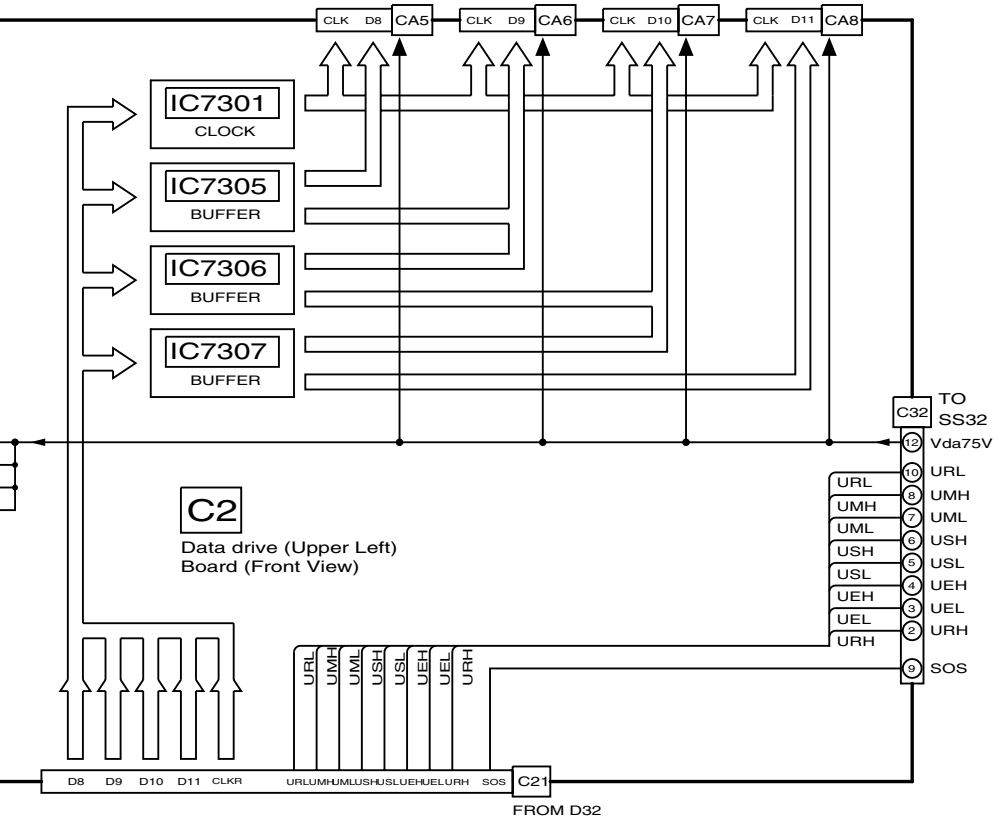
72 73 74 75

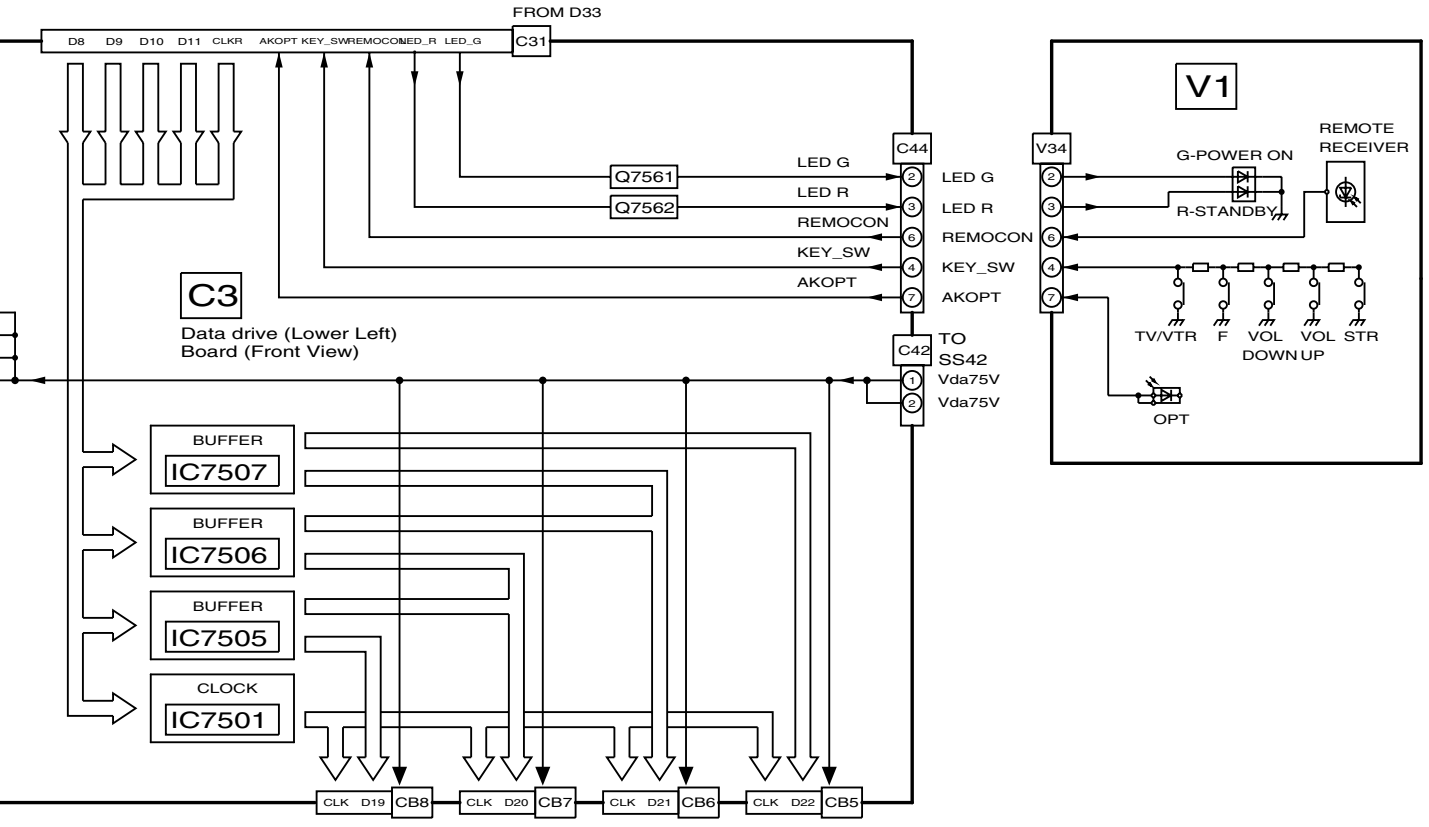
14.39. C1-Board, C2-Board, C3-Board, C4-Board and V1-Board Block Diagram





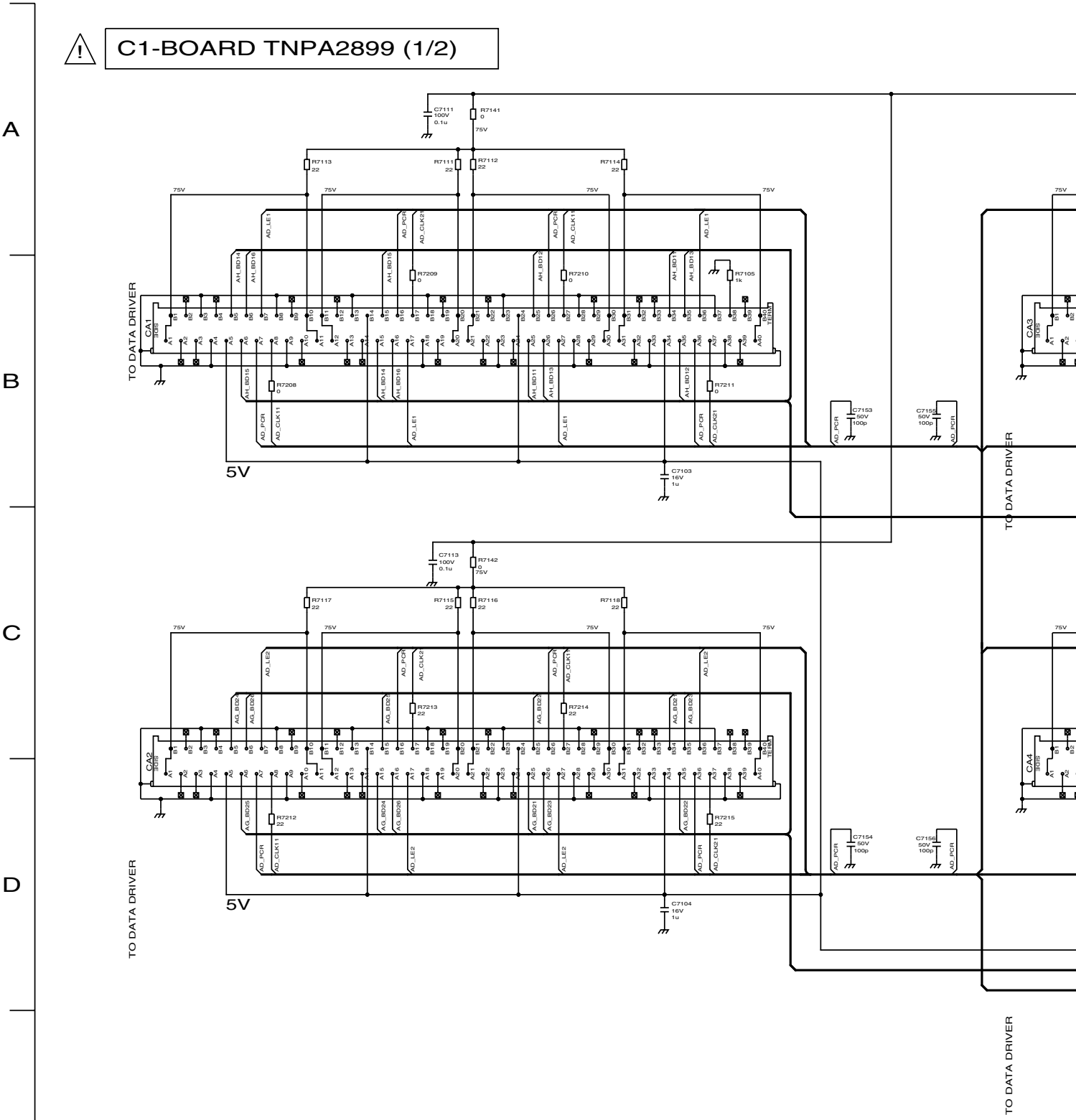
TH-42PHD6/TH-42PHW6
C1-BOARD, C2-BOARD, C3-BOARD, C4-BOARD and V1-BOARD Block Diagram



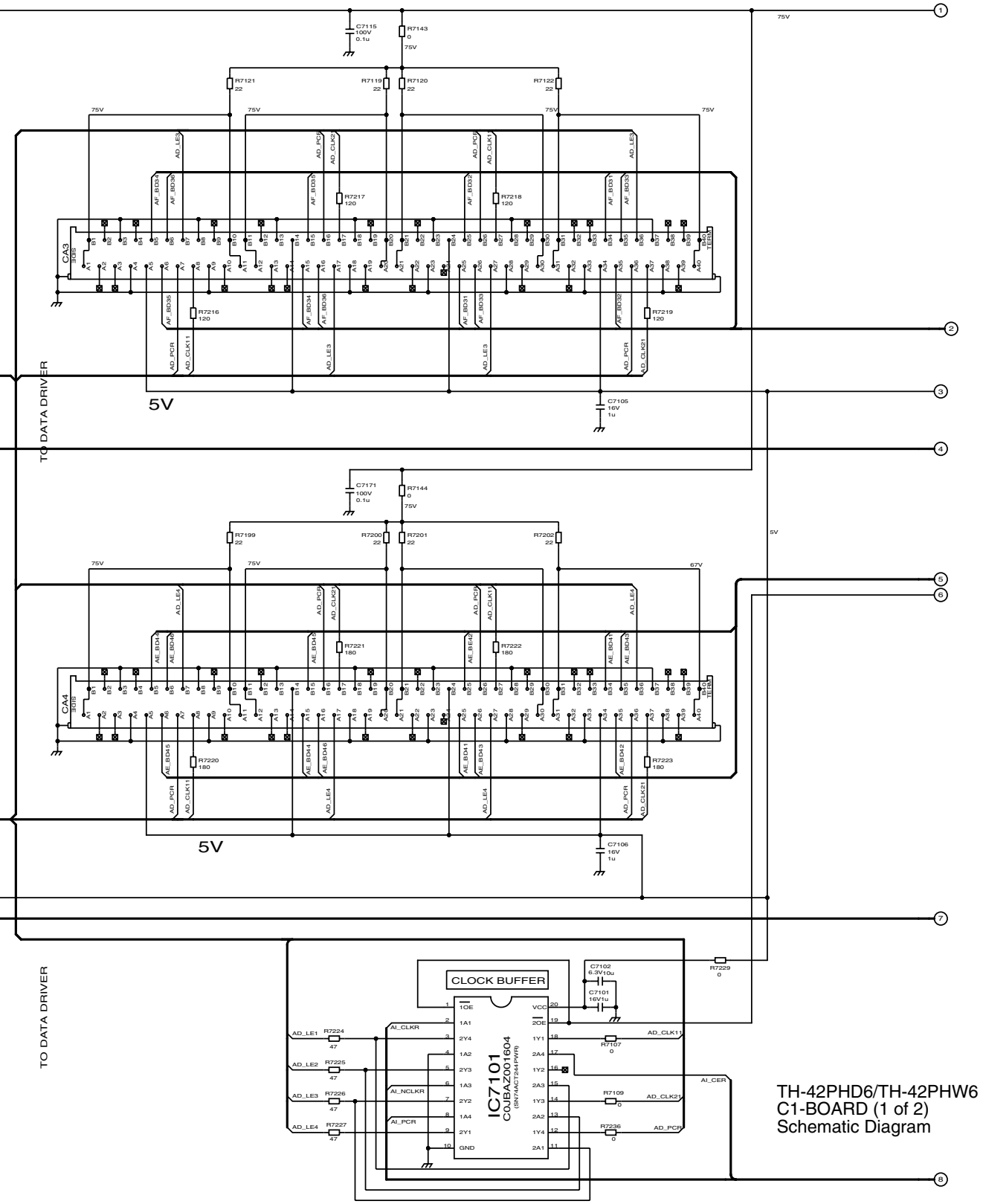


TH-42PHD6/TH-42PHW6
C1-BOARD, C2-BOARD, C3-BOARD, C4-BOARD and V1-BOARD Block Diagram

14.40. C1-Board (1 of 2) Schematic Diagram

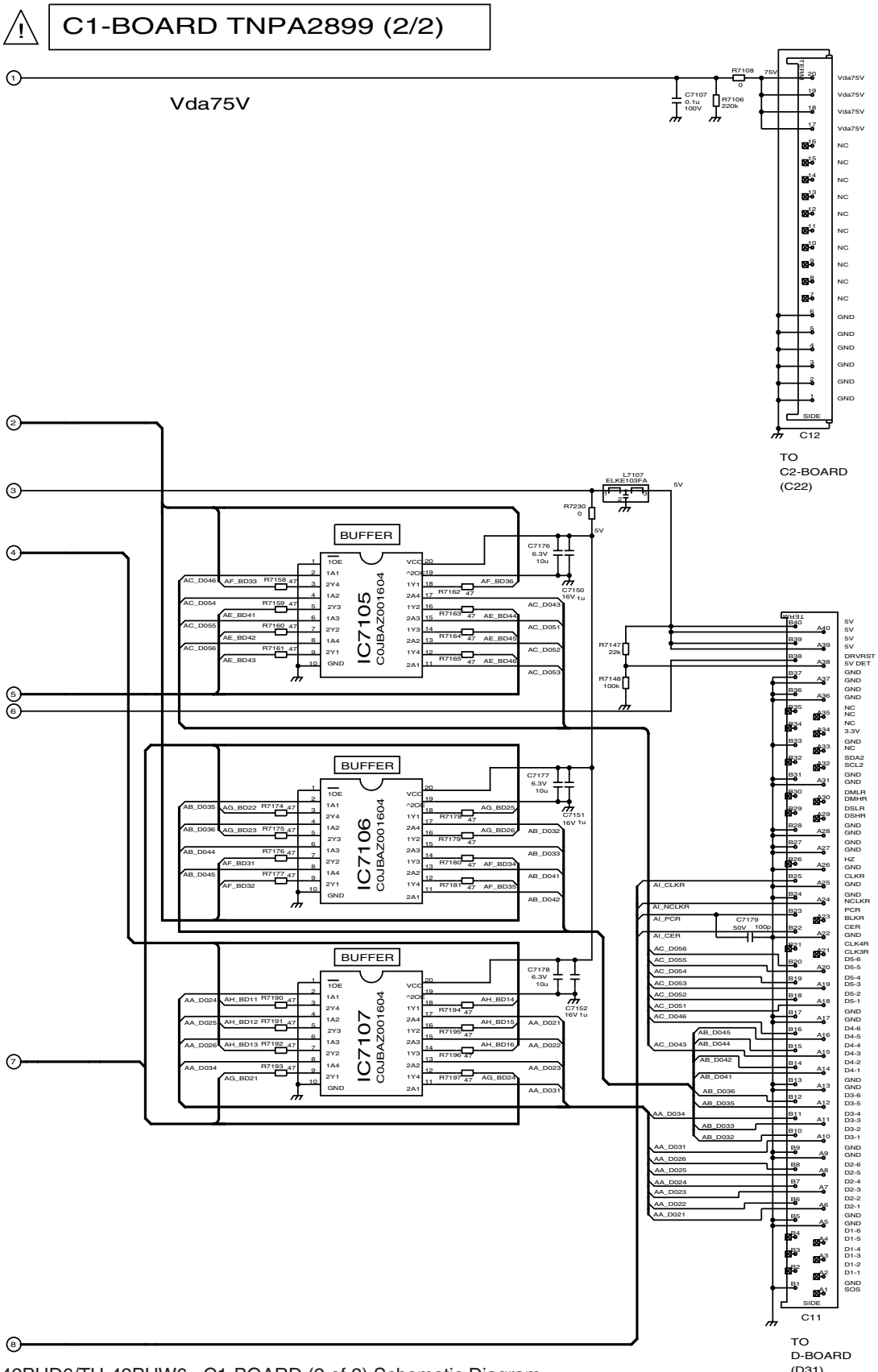


TH-42PHD6/TH-42PHW6
C1-BOARD (1 of 2) Schematic Diagram



TH-42PHD6/TH-42PHW6
C1-BOARD (1 of 2)
Schematic Diagram

14.41. C1-Board (2 of 2) Schematic Diagram

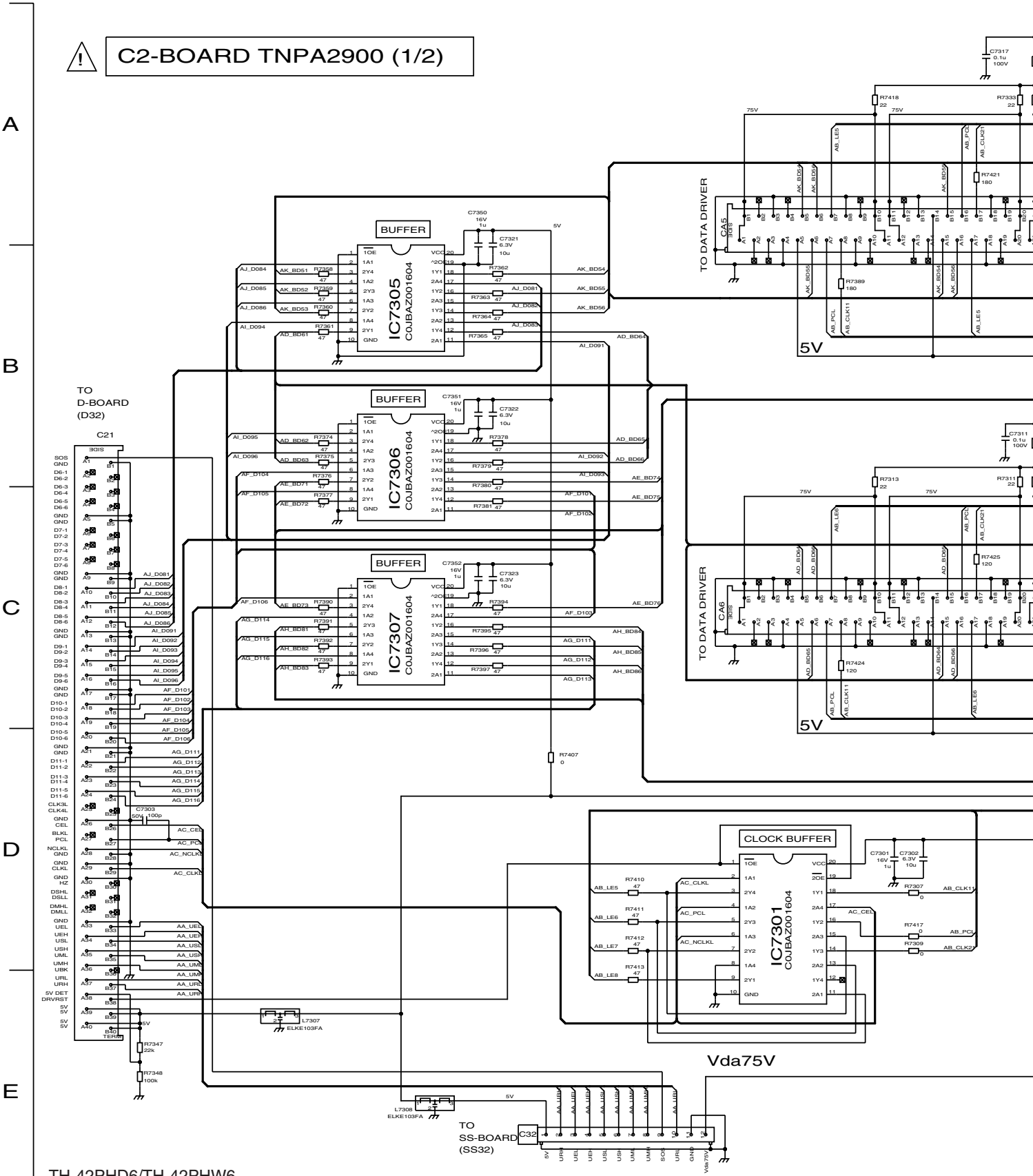


TH-42PHD6/TH-42PHW6 C1-BOARD (2 of 2) Schematic Diagram

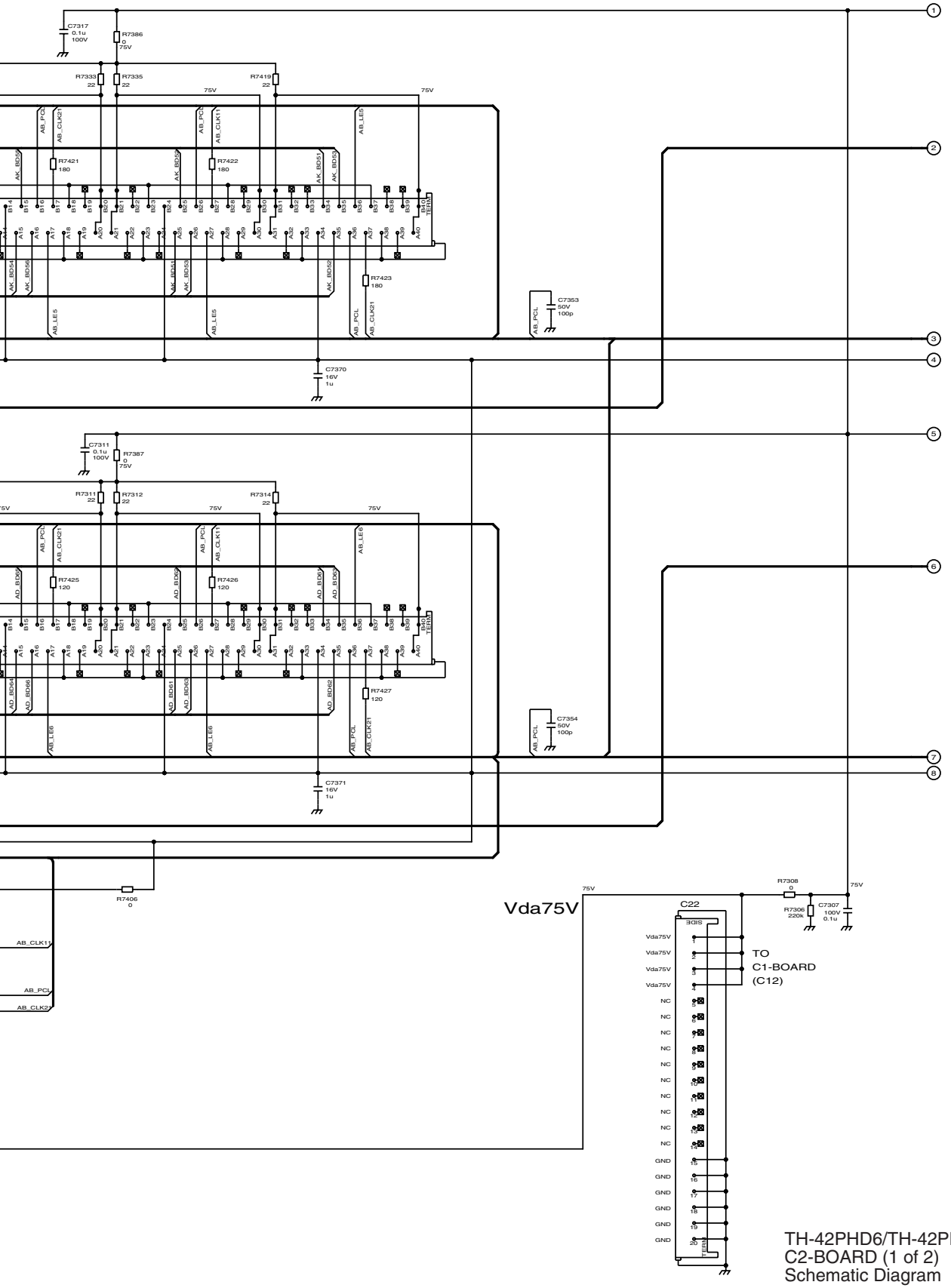
TH-42PHD6/TH-42PHW6
C1-BOARD (2 of 2) Schematic Diagram

12 13 14 15

14.42. C2-Board (1 of 2) Schematic Diagram



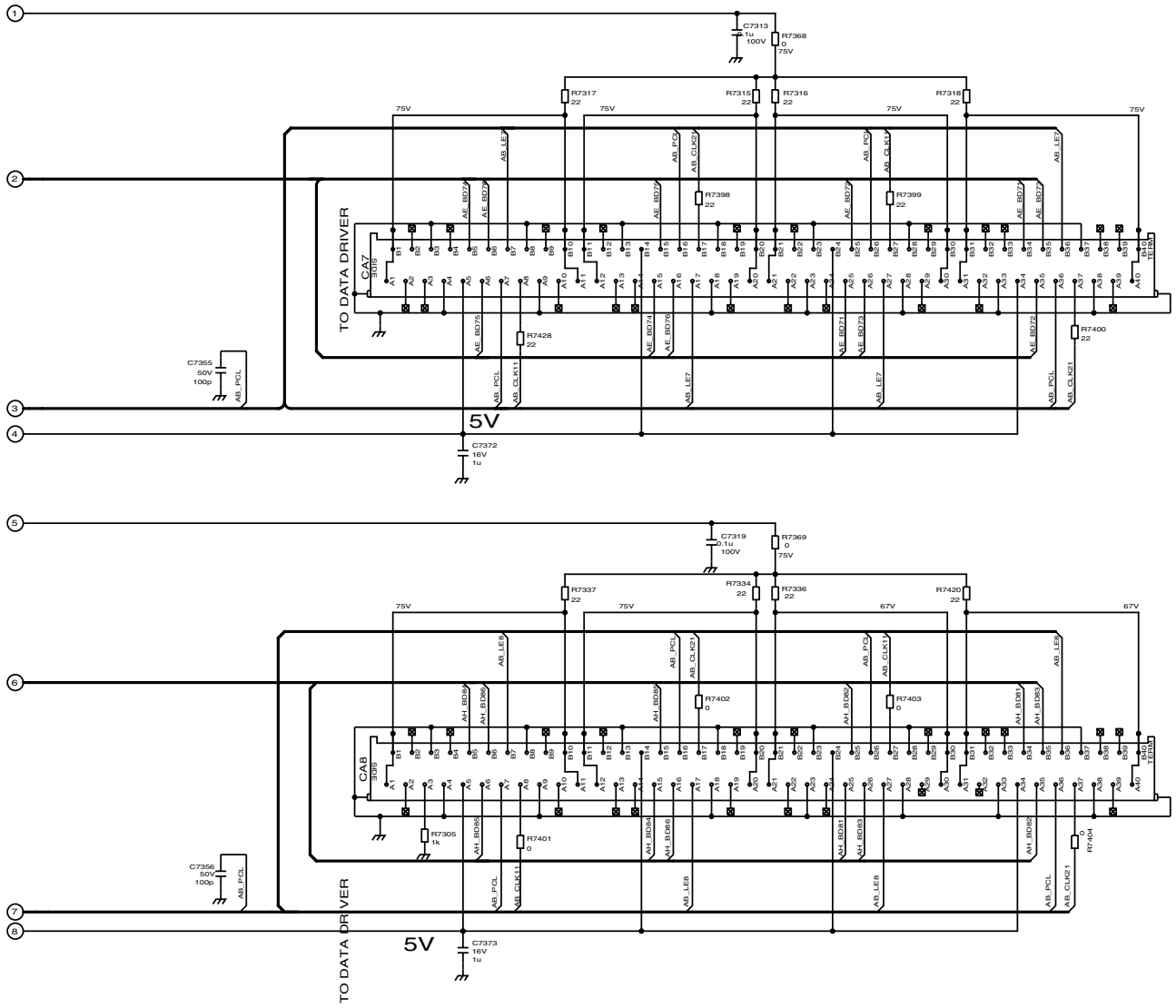
TH-42PHD6/TH-42PHW6
C2-BOARD (1 of 2) Schematic Diagram



TH-42PHD6/TH-42PHW6
C2-BOARD (1 of 2)
Schematic Diagram

5 6 7 8

14.43. C2-Board (2 of 2) Schematic Diagram



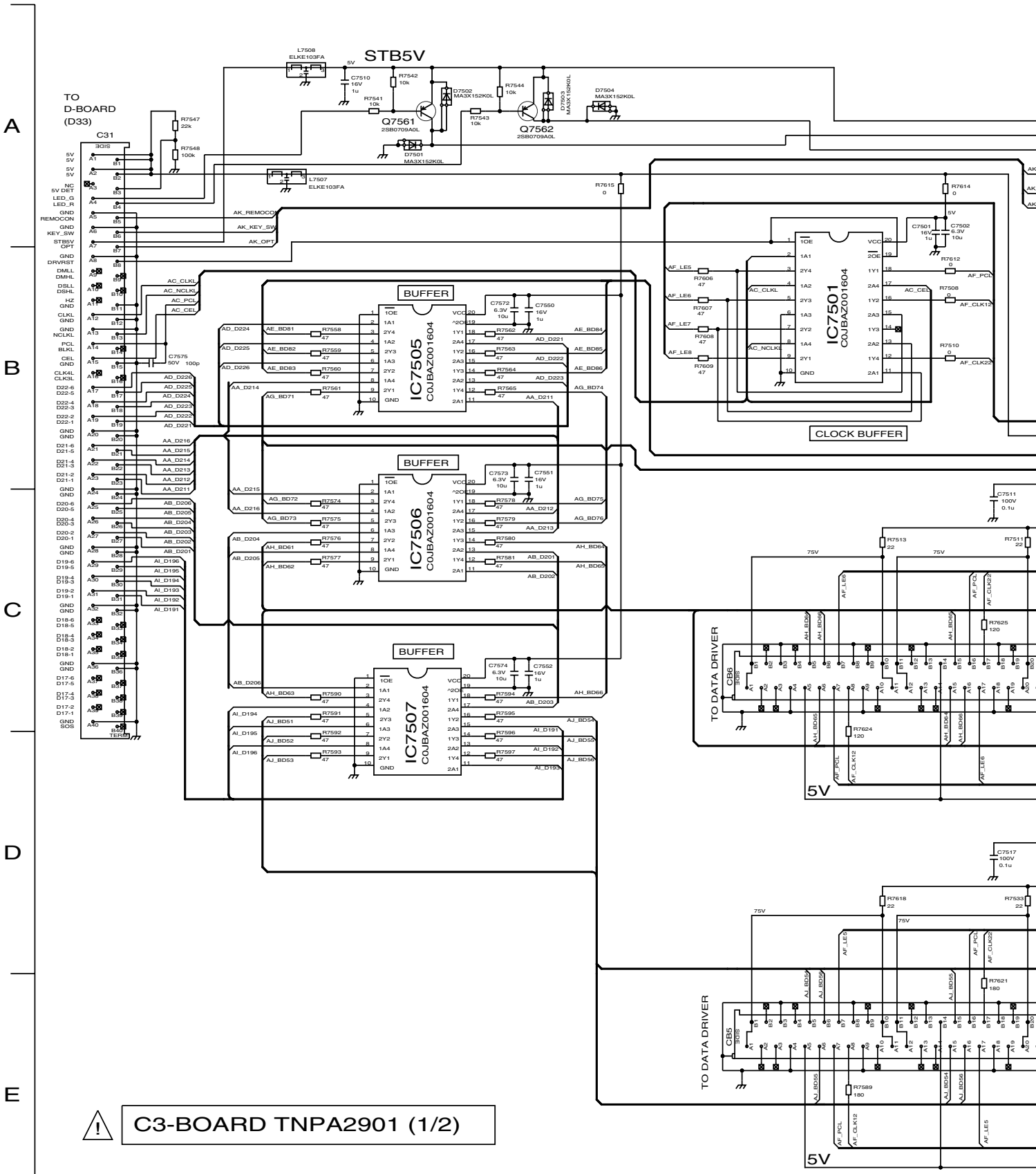
C2-BOARD TNPA2900 (2/2)

TH-42PHD6/TH-42PHW6 C2-BOARD (2 of 2) Schematic Diagram

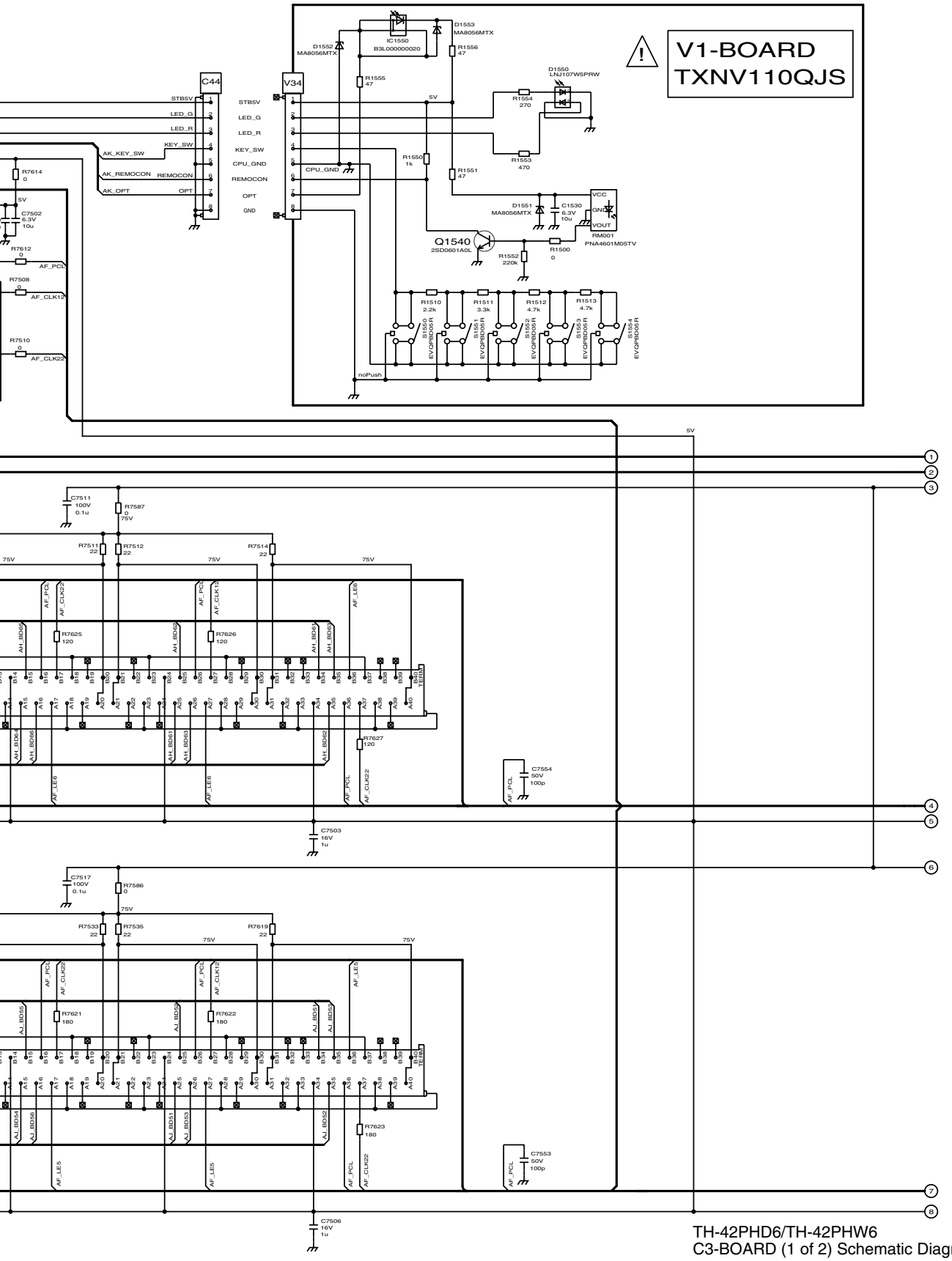

75V
B39
B40
TERM
A40


67V
B39
B40
TERM
A40

14.44. C3-Board (1 of 2) Schematic Diagram



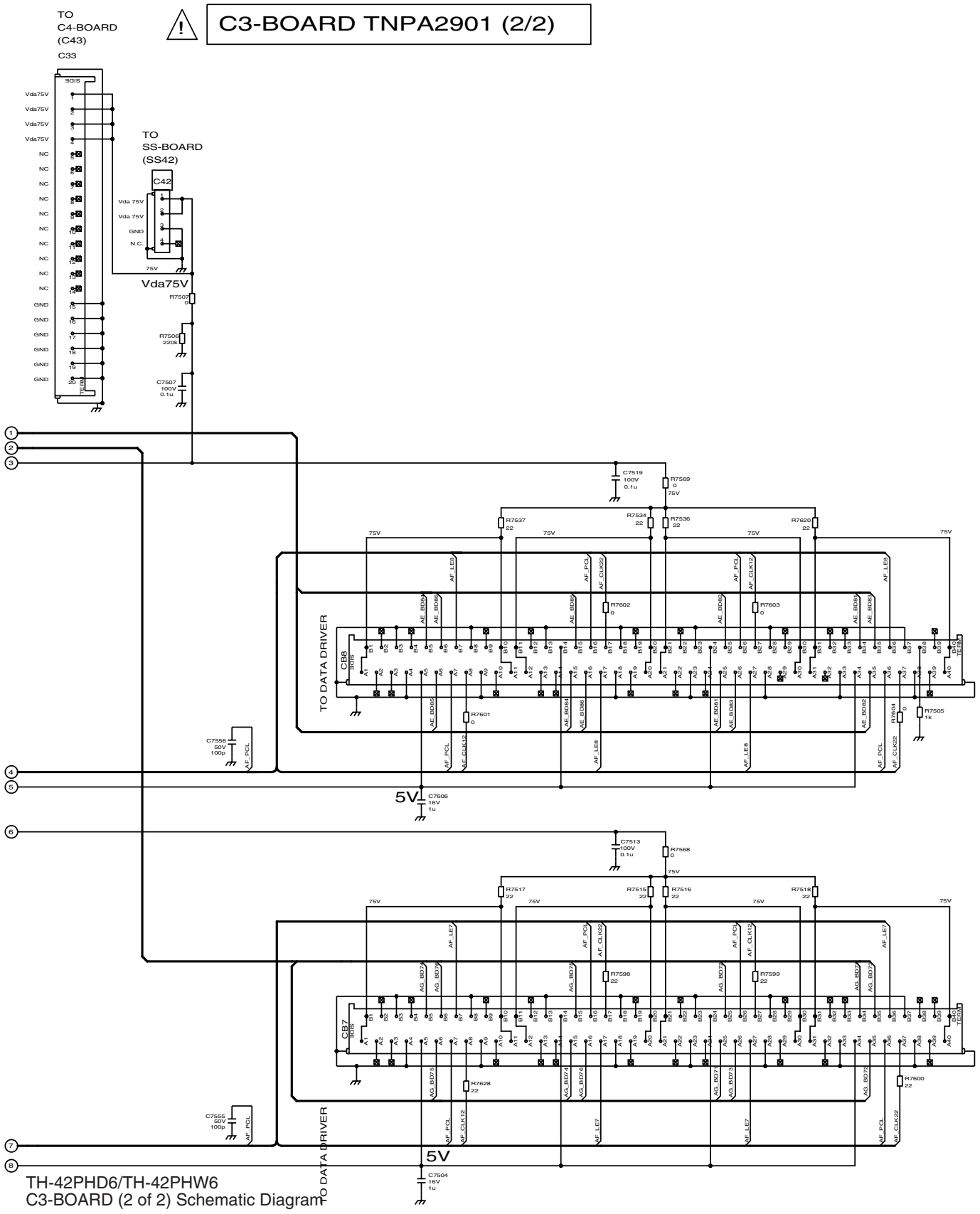
TH-42PHD6/TH-42PHW6
C3-BOARD (1 of 2) Schematic Diagram

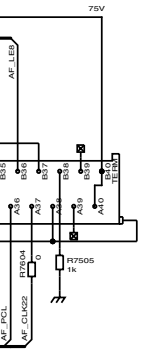


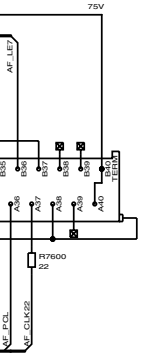
TH-42PHD6/TH-42PHW6
C3-BOARD (1 of 2) Schematic Diagram

5 6 7 8

14.45. C3-Board (2 of 2) Schematic Diagram



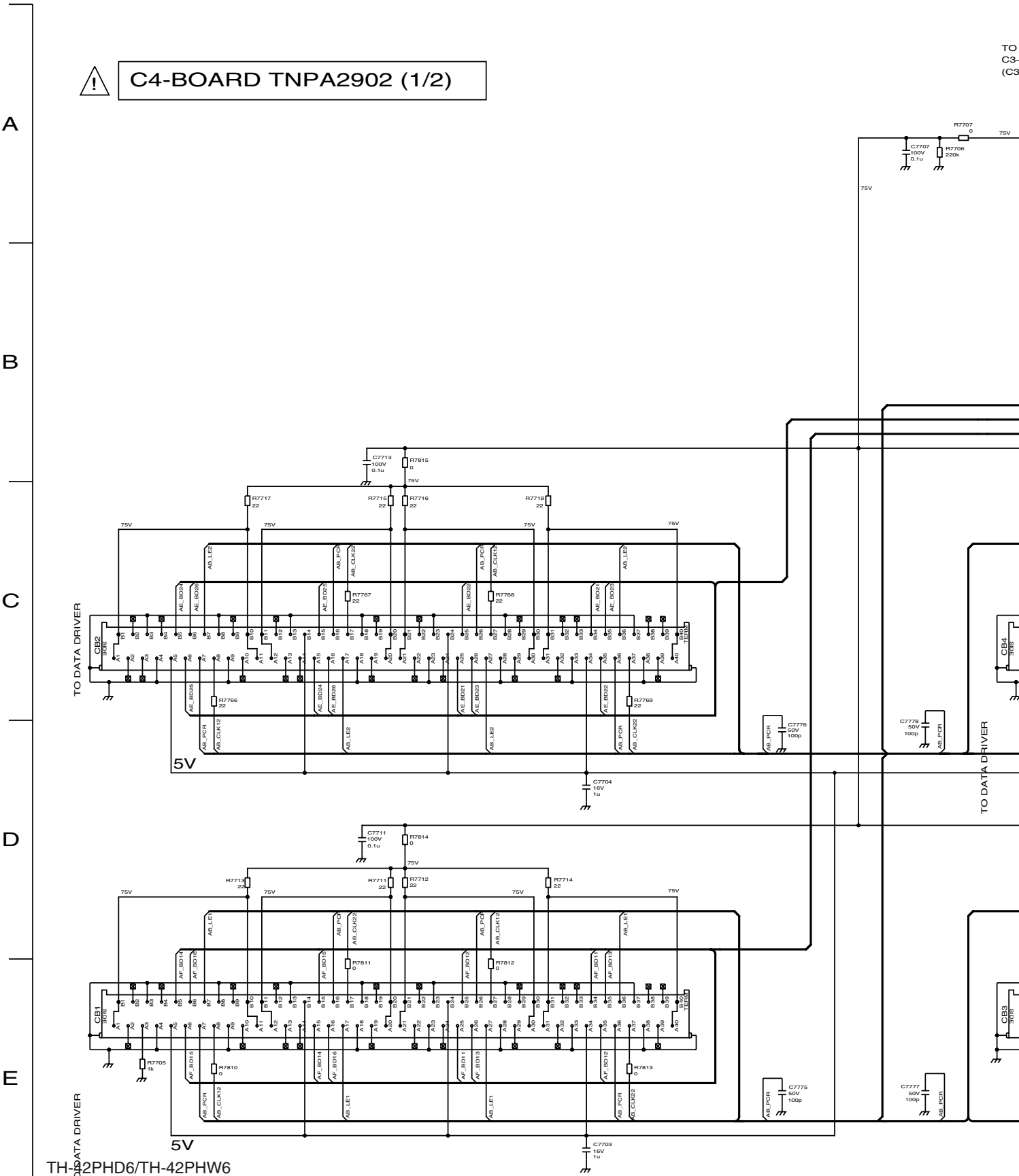




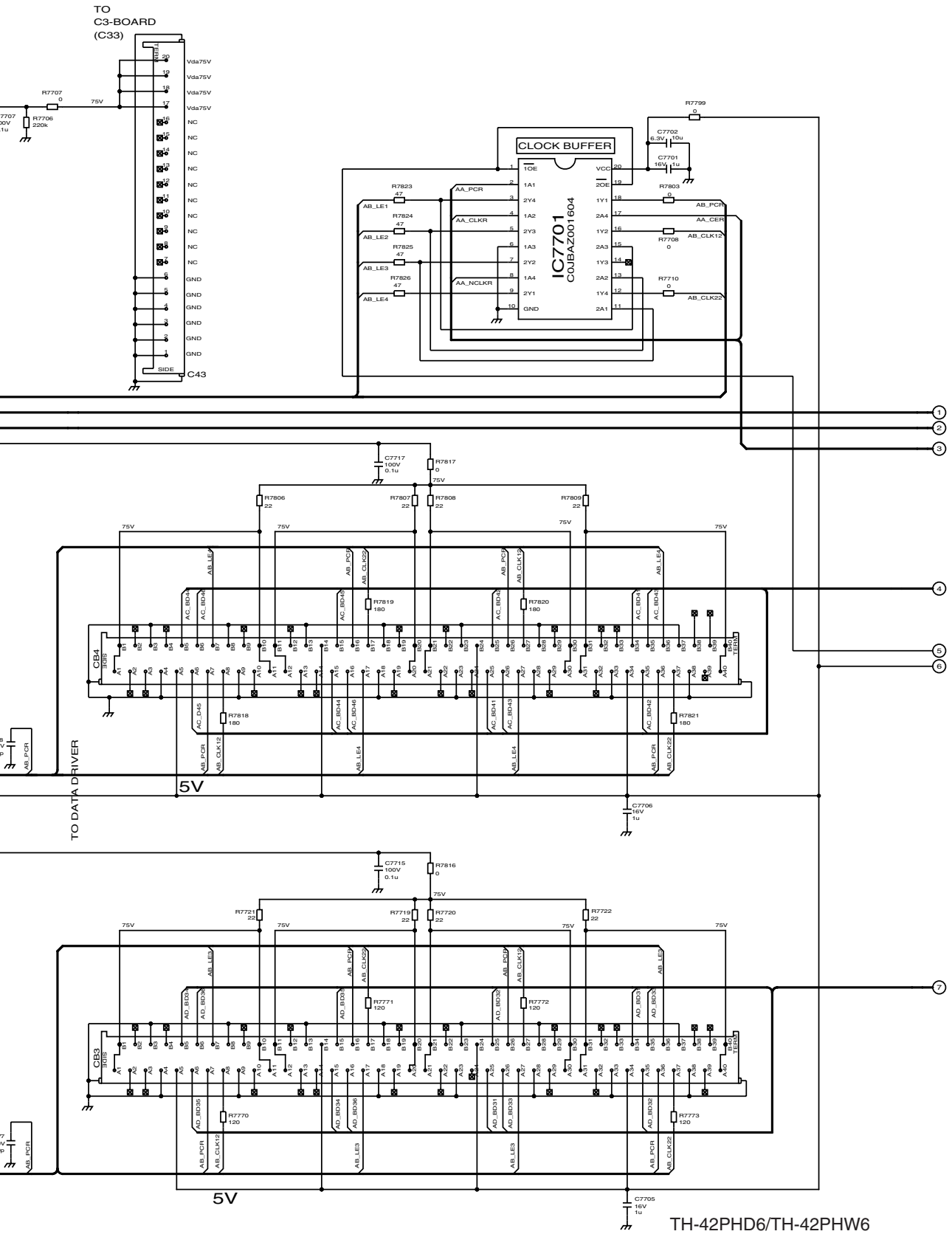
TH-42PHD6/TH-42PHW6
C3-BOARD (2 of 2) Schematic Diagram

12 13 14 15

14.46. C4-Board (1 of 2) Schematic Diagram



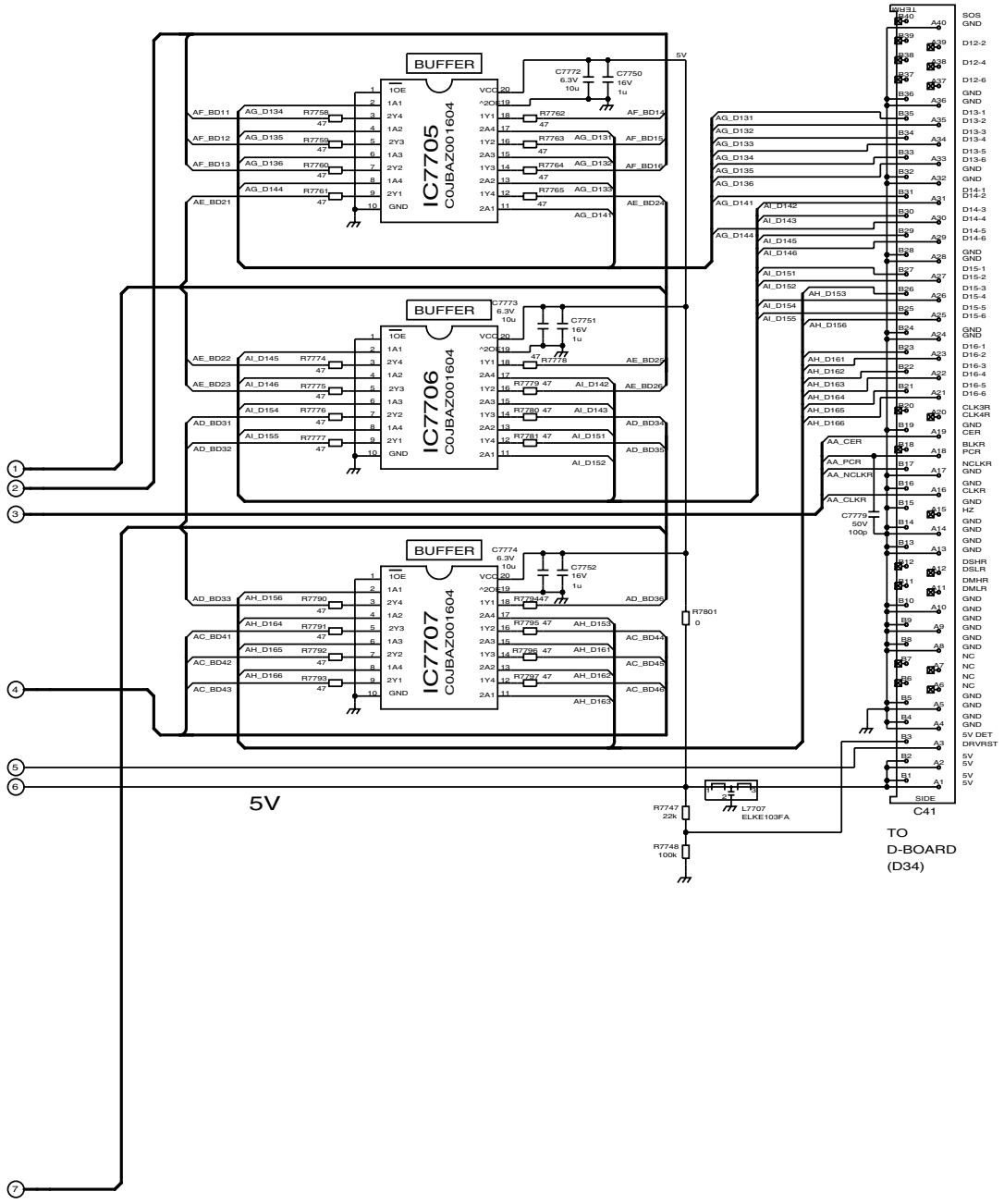
TH-42PHD6/TH-42PHW6
C4-BOARD (1 of 2) Schematic Diagram



TH-42PHD6/TH-42PHW6
C4-BOARD (1 of 2) Schematic Diagram

5 6 7 8

14.47. C4-Board (2 of 2) Schematic Diagram



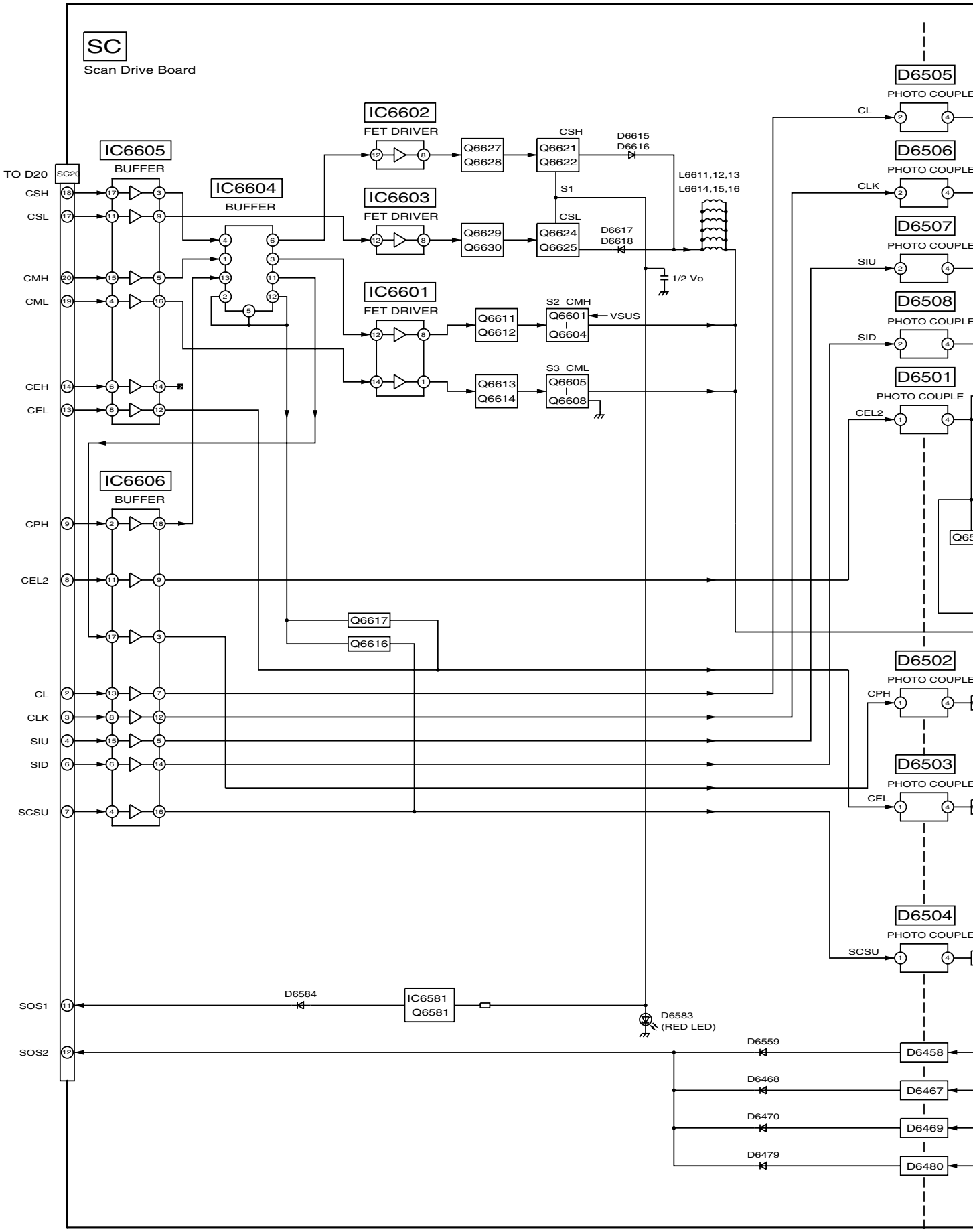
C4-BOARD TNPA2902 (2/2)

TH-42PHD6/TH-42PHW6
C4-BOARD (2 of 2) Schematic Diagram

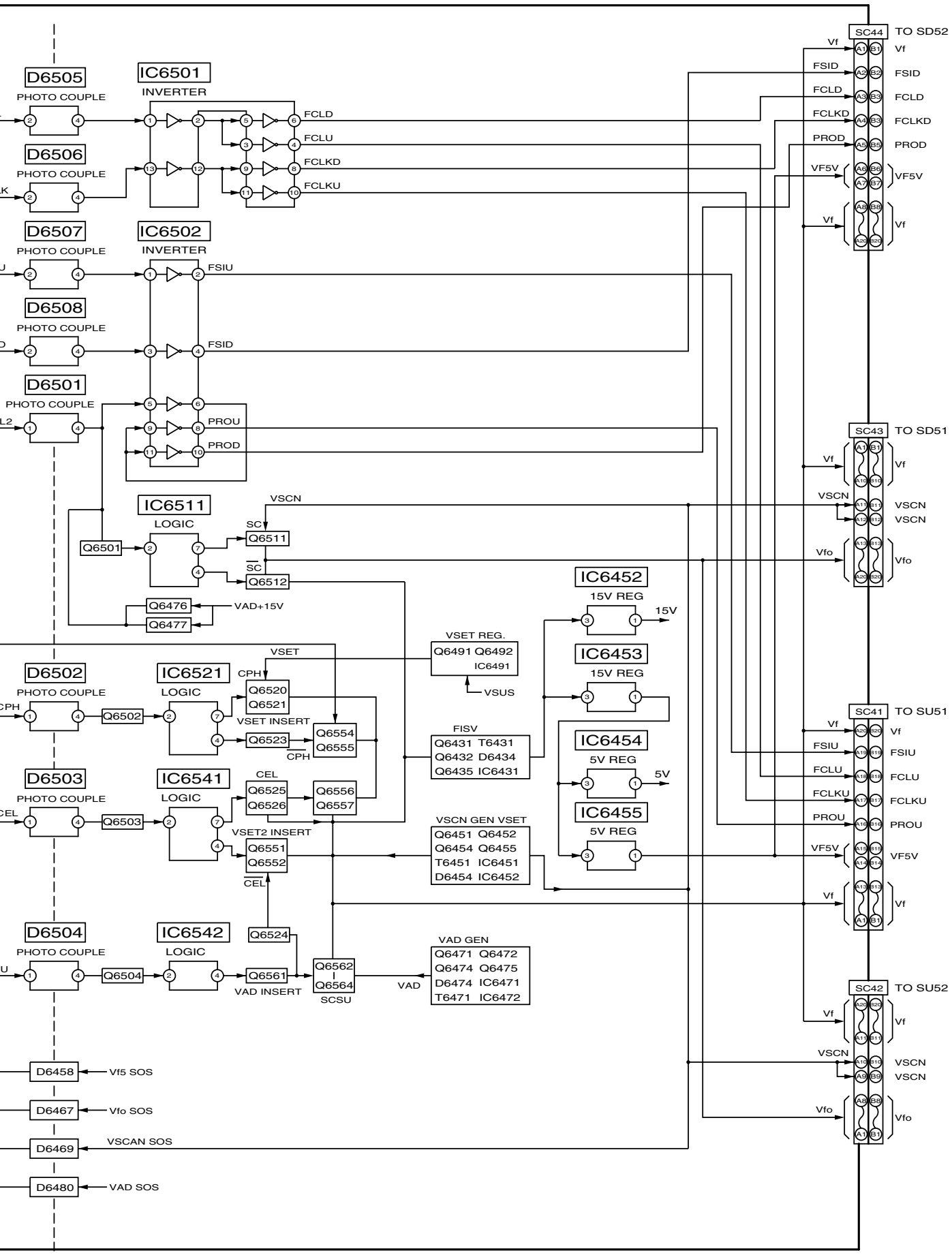
TH-42PHD6/TH-42PHW6
C4-BOARD (2 of 2) Schematic Diagram

12 13 14 15

14.48. SC-Board Block Diagram

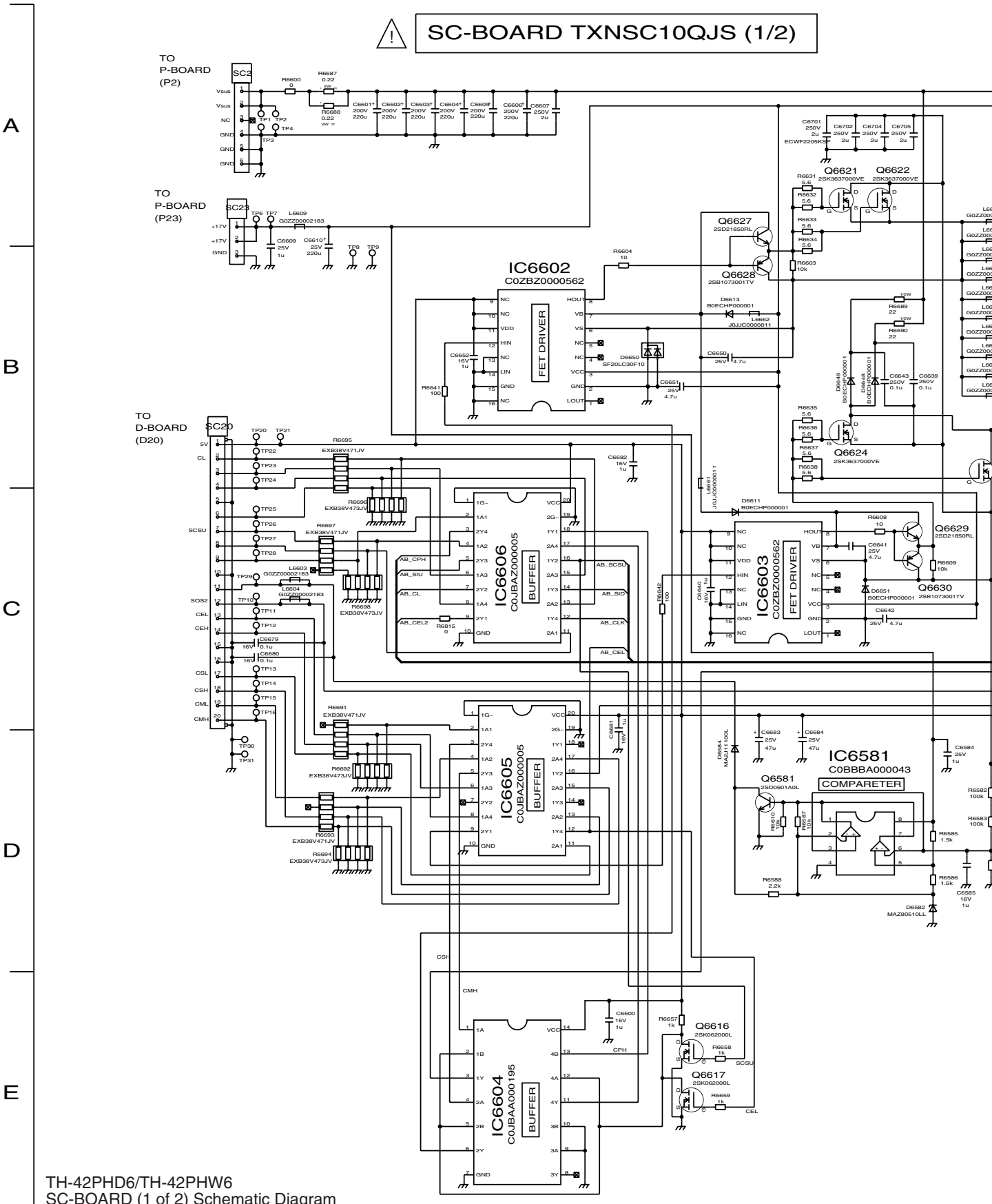


TH-42PHD6/TH-42PHW6 SC-BOARD Block Diagram

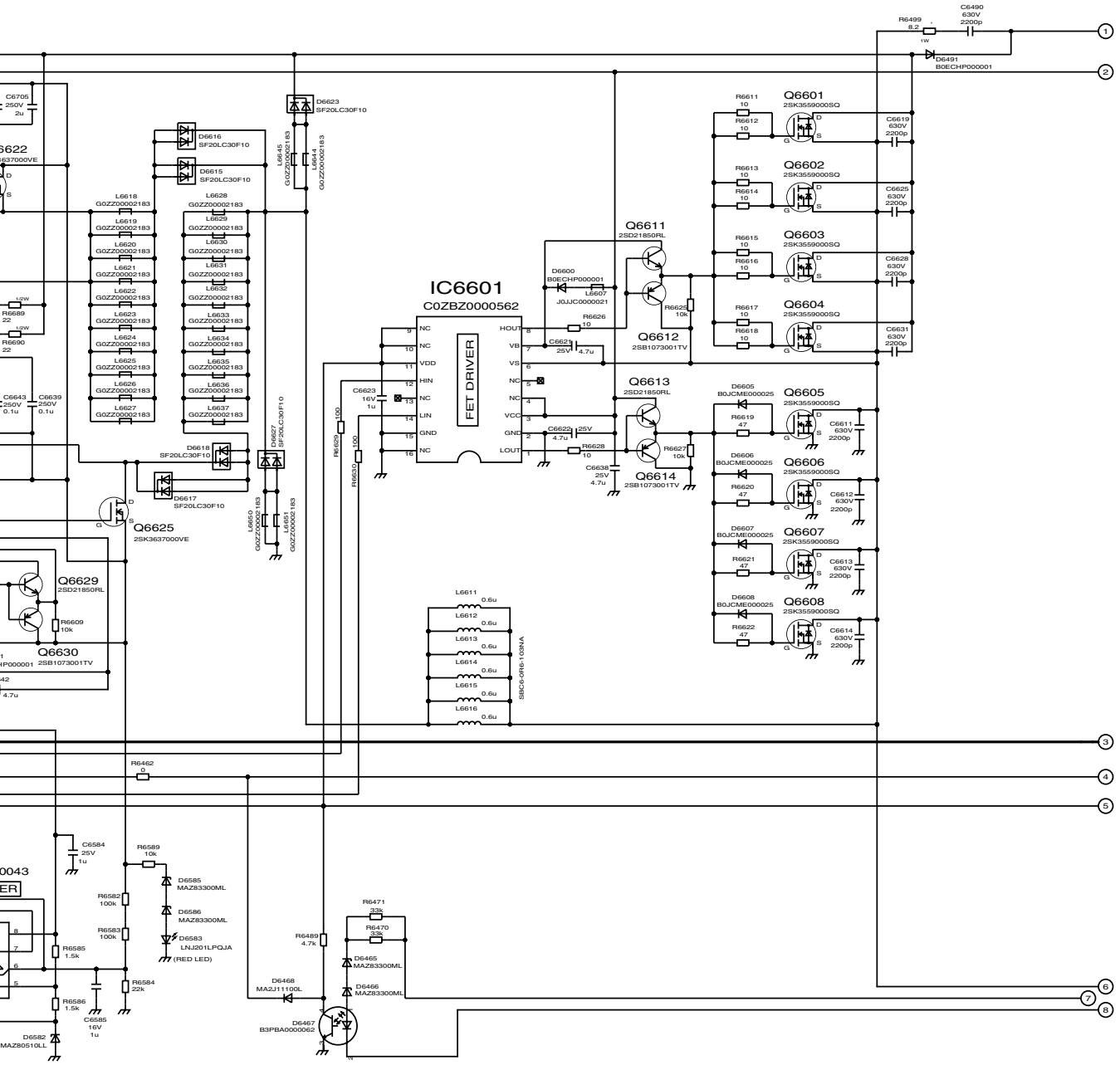


TH-42PHD6/TH-42PHW6 SC-BOARD Block Diagram

14.49. SC-Board (1 of 2) Schematic Diagram



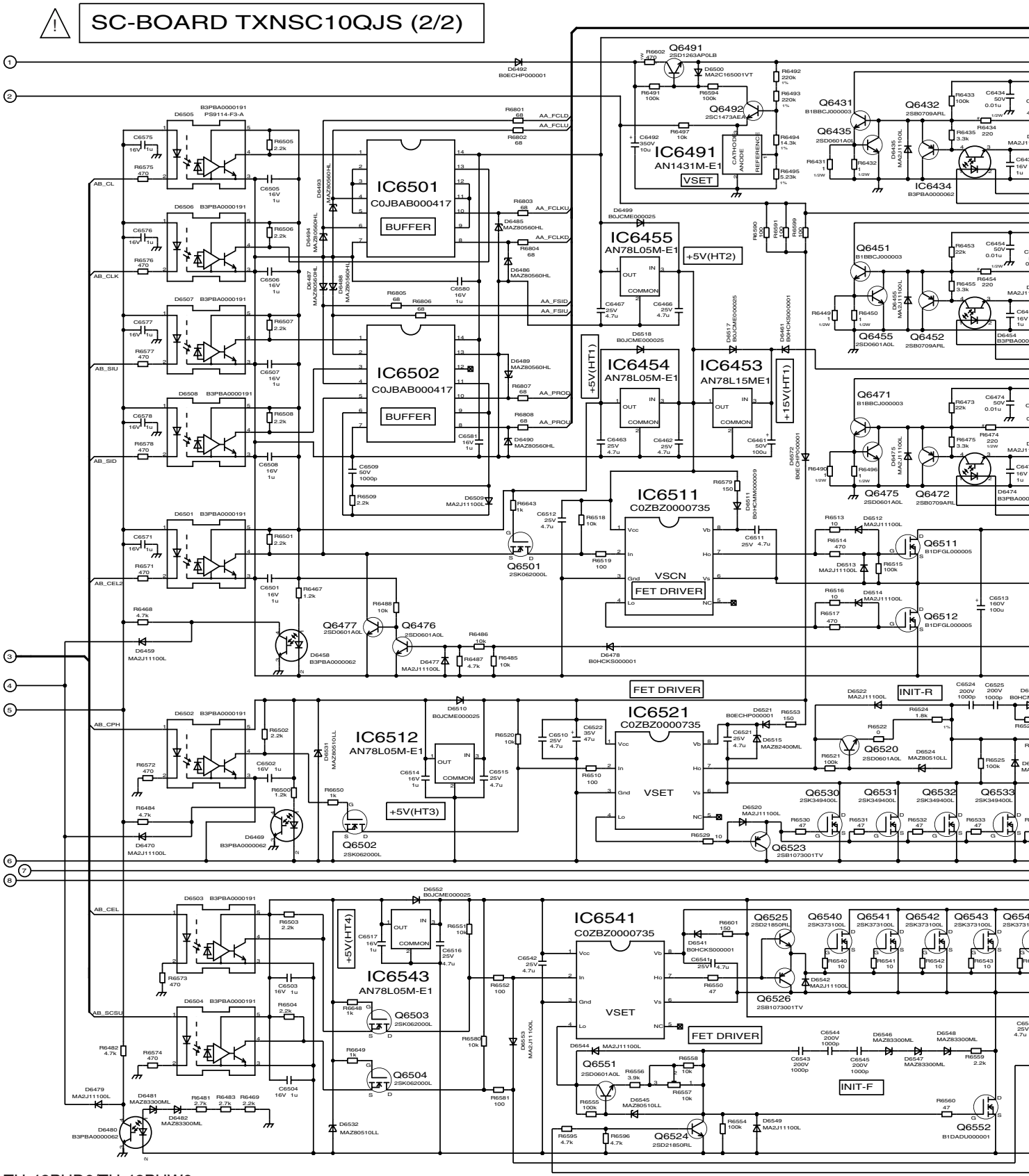
TH-42PHD6/TH-42PHW6
SC-BOARD (1 of 2) Schematic Diagram



TH-42PHD6/TH-42PHW6
SC-BOARD (1 of 2) Schematic Diagram

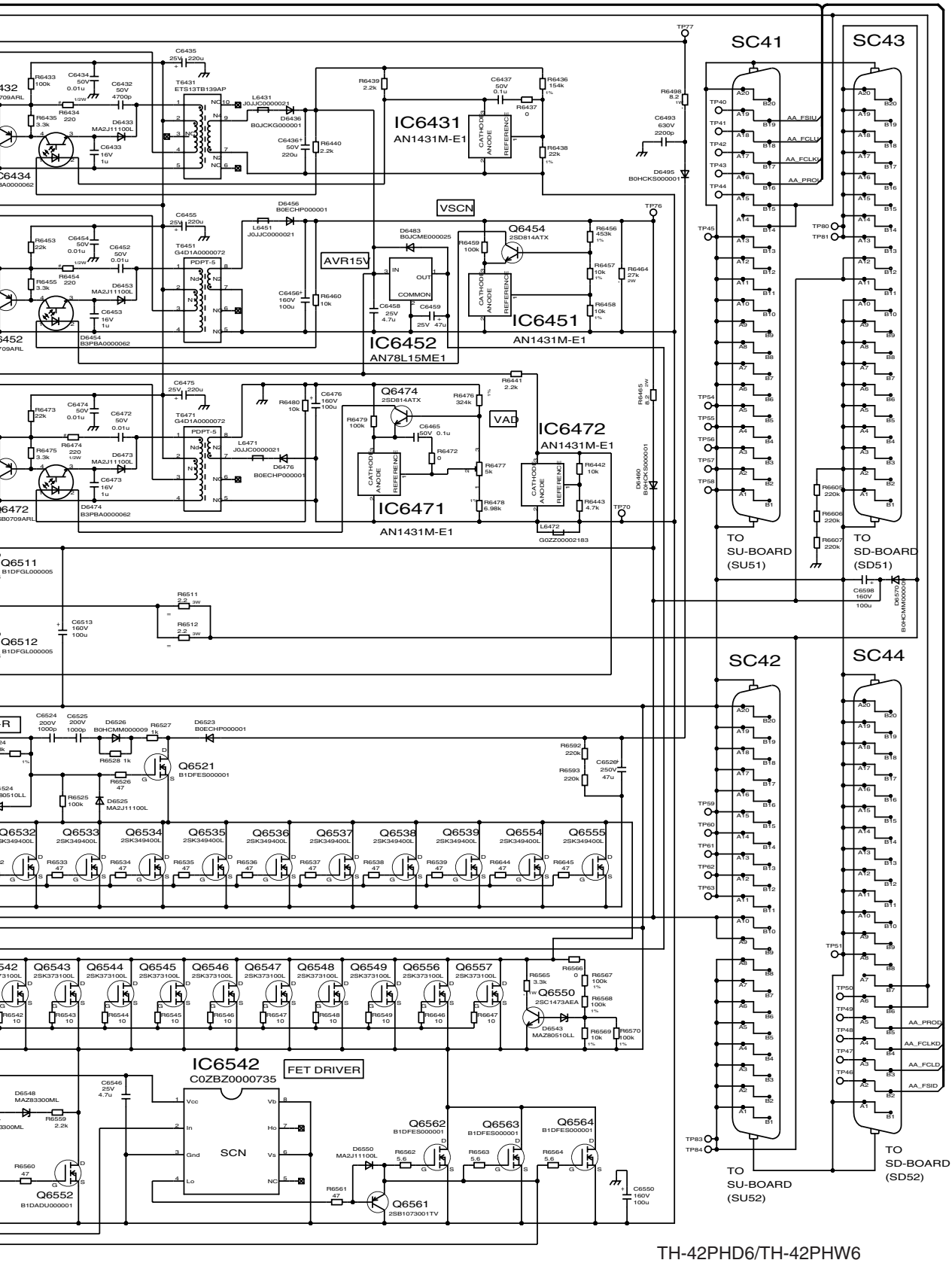
5 6 7 8

14.50. SC-Board (2 of 2) Schematic Diagram



TH-42PHD6/TH-42PHW6
SC-BOARD (2 of 2) Schematic Diagram

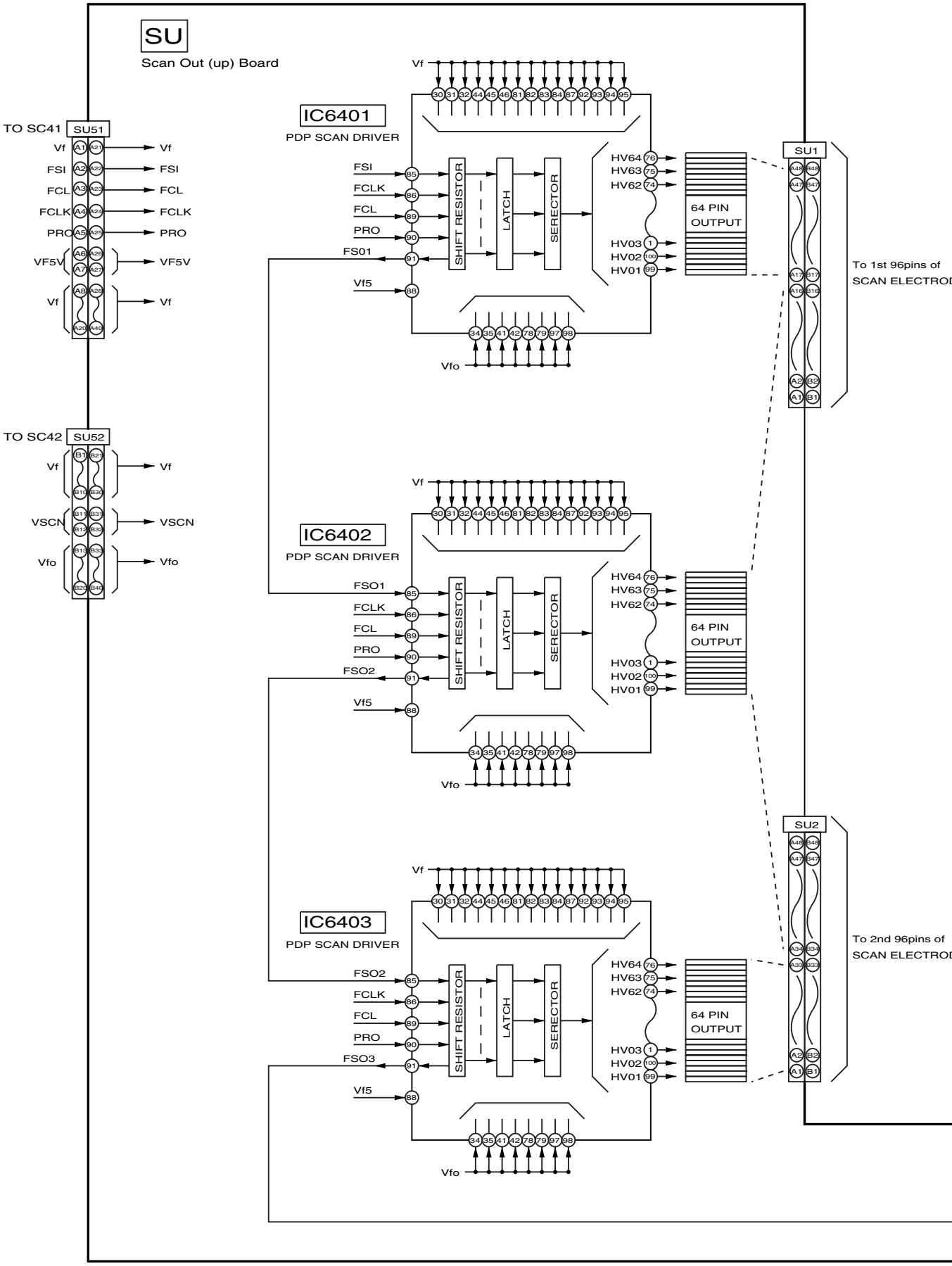
8 9 10 11 12



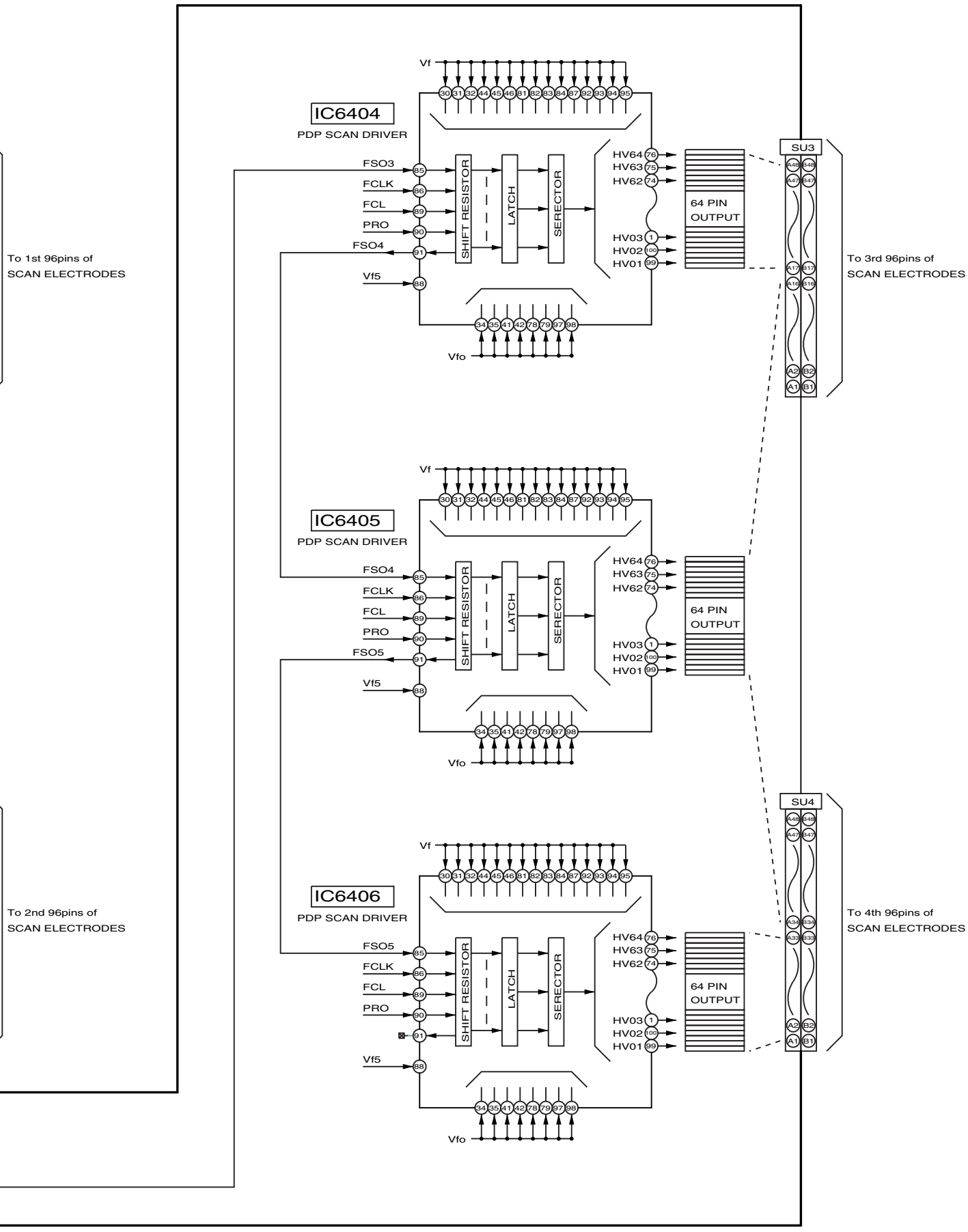
TH-42PHD6/TH-42PHW6
SC-BOARD (2 of 2) Schematic Diagram

12 13 14 15

14.51. SU-Board Block Diagram

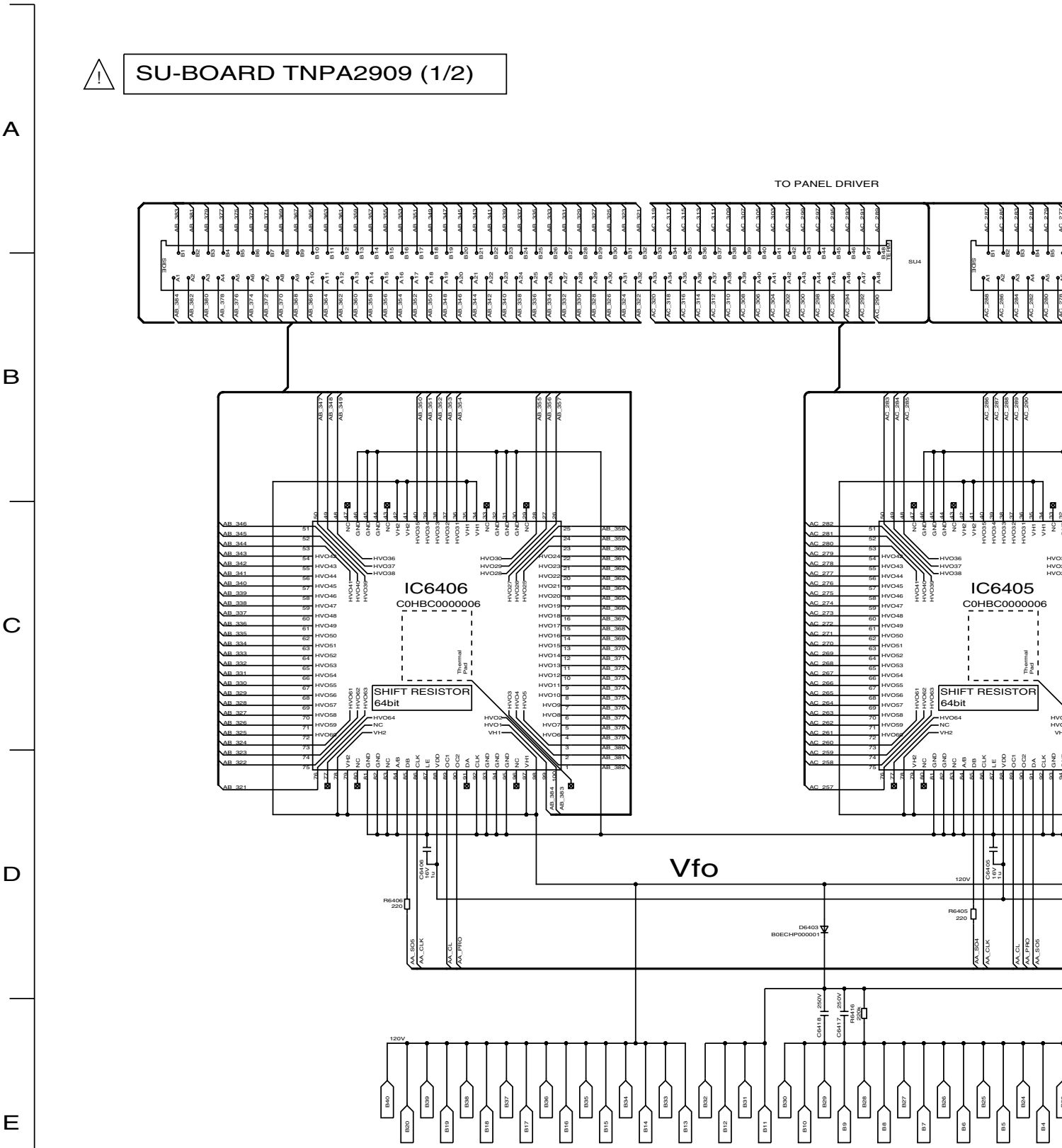


TH-42PHD6/TH-42PHW6
SU-BOARD Block Diagram

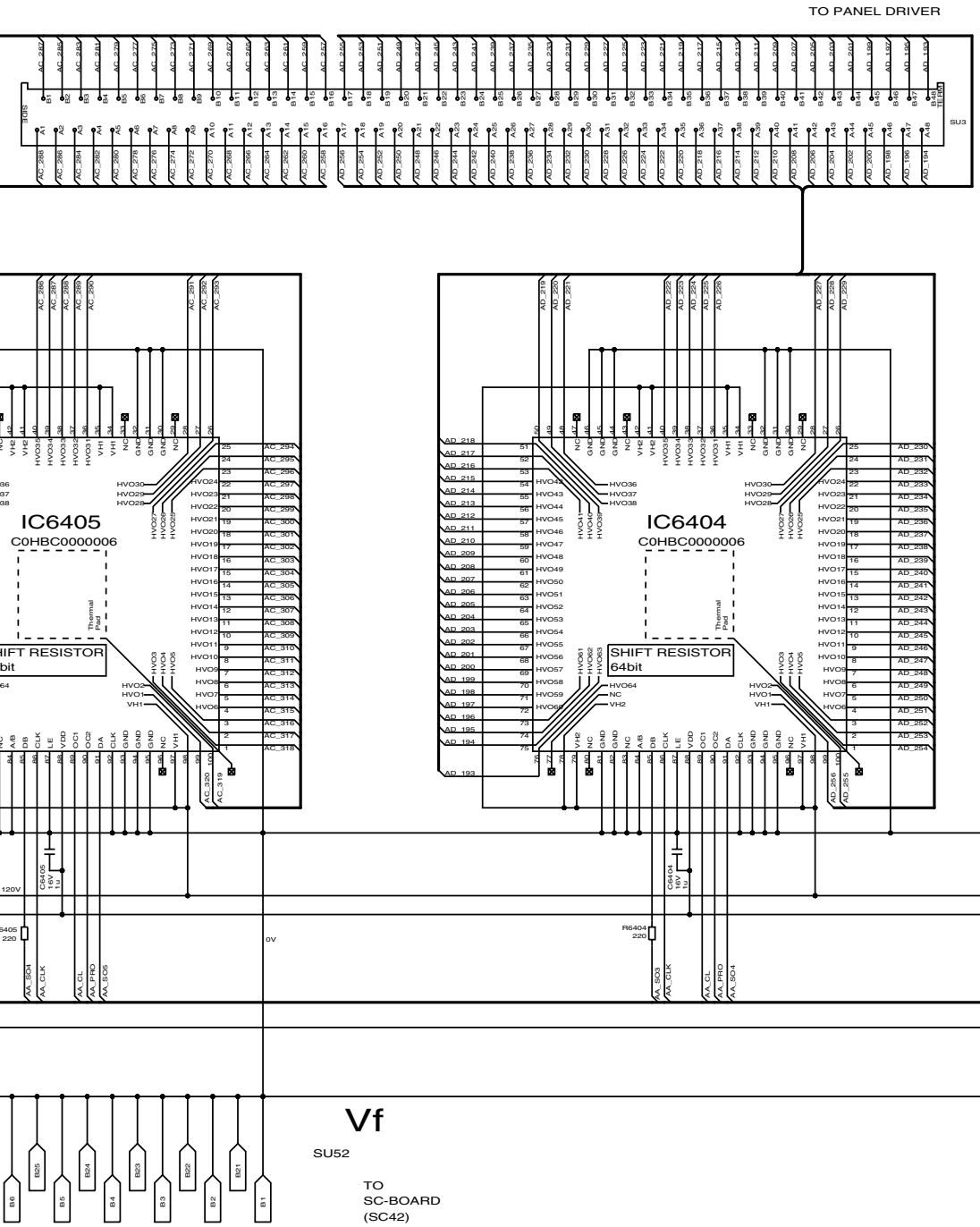


TH-42PHD6/TH-42PHW6
SU-BOARD Block Diagram

14.52. SU-Board (1 of 2) Schematic Diagram



TH-42PHD6/TH-42PHW6
SU-BOARD (1 of 2) Schematic Diagram

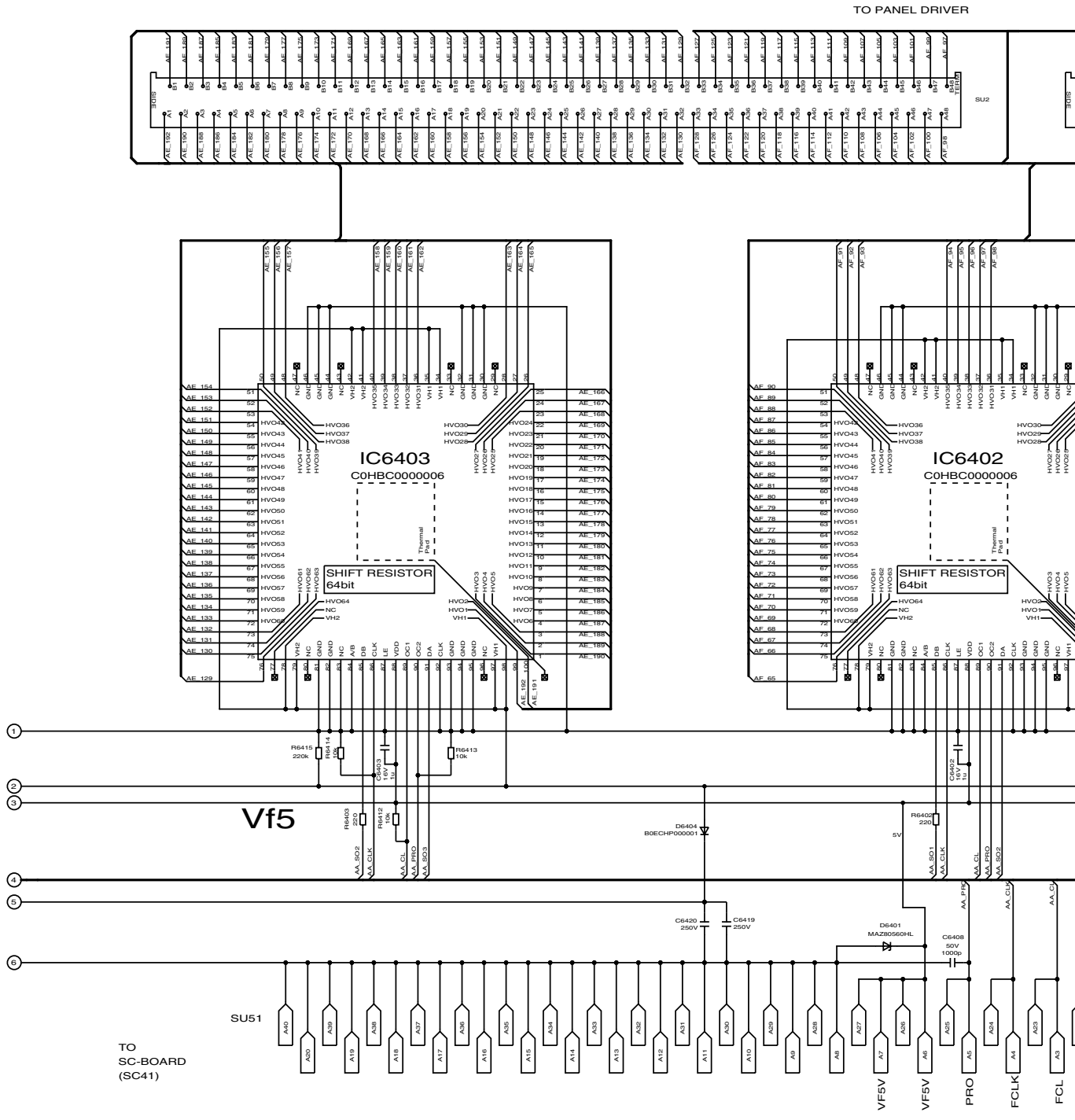


TH-42PHD6/TH-42PHW6
SU-BOARD (1 of 2) Schematic Diagram

5 6 7 8

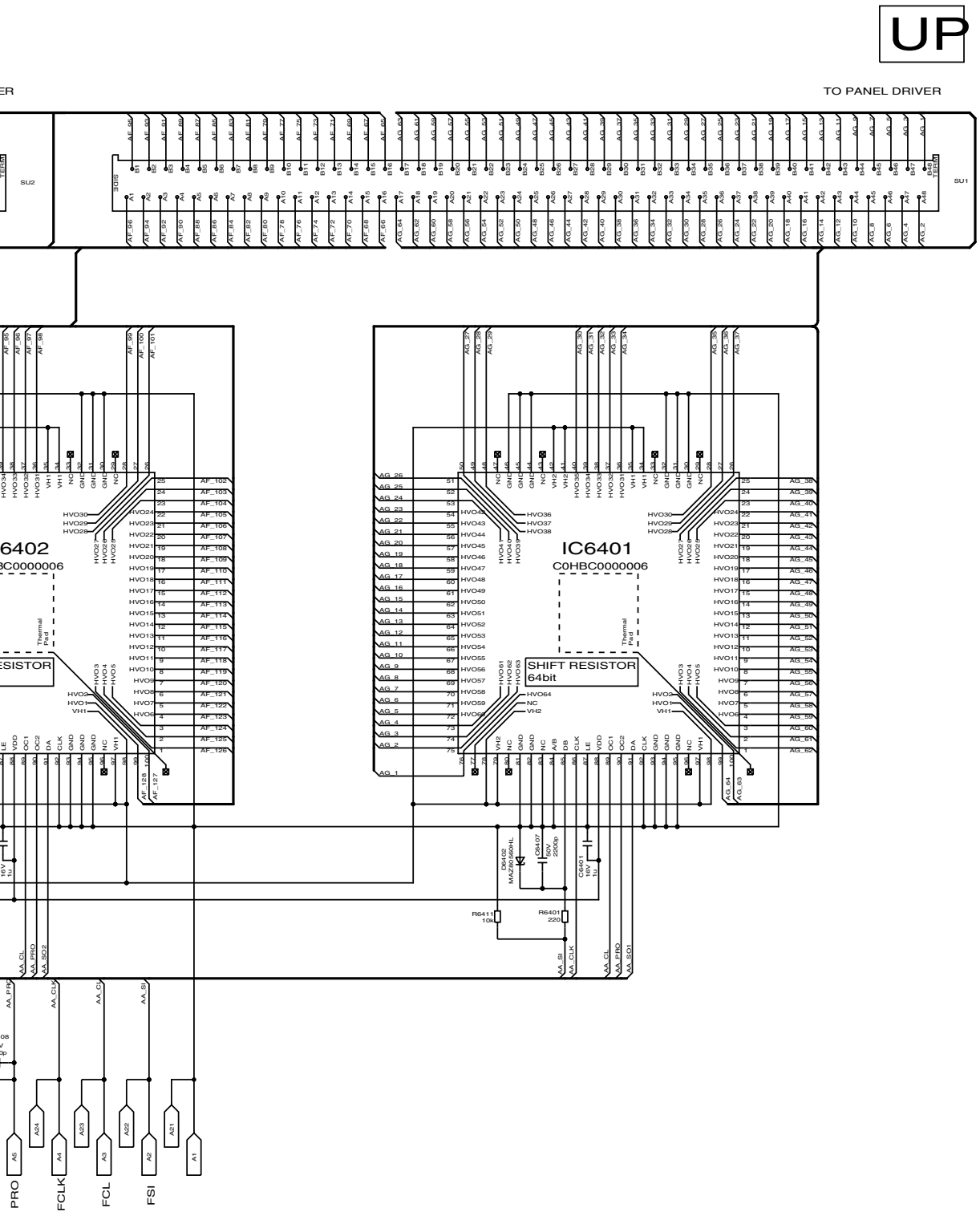
14.53. SU-Board (2 of 2) Schematic Diagram

⚠ SU-BOARD TNPA2909 (2/2)



TH-42PHD6/TH-42PHW6
SU-BOARD (2 of 2) Schematic Diagram

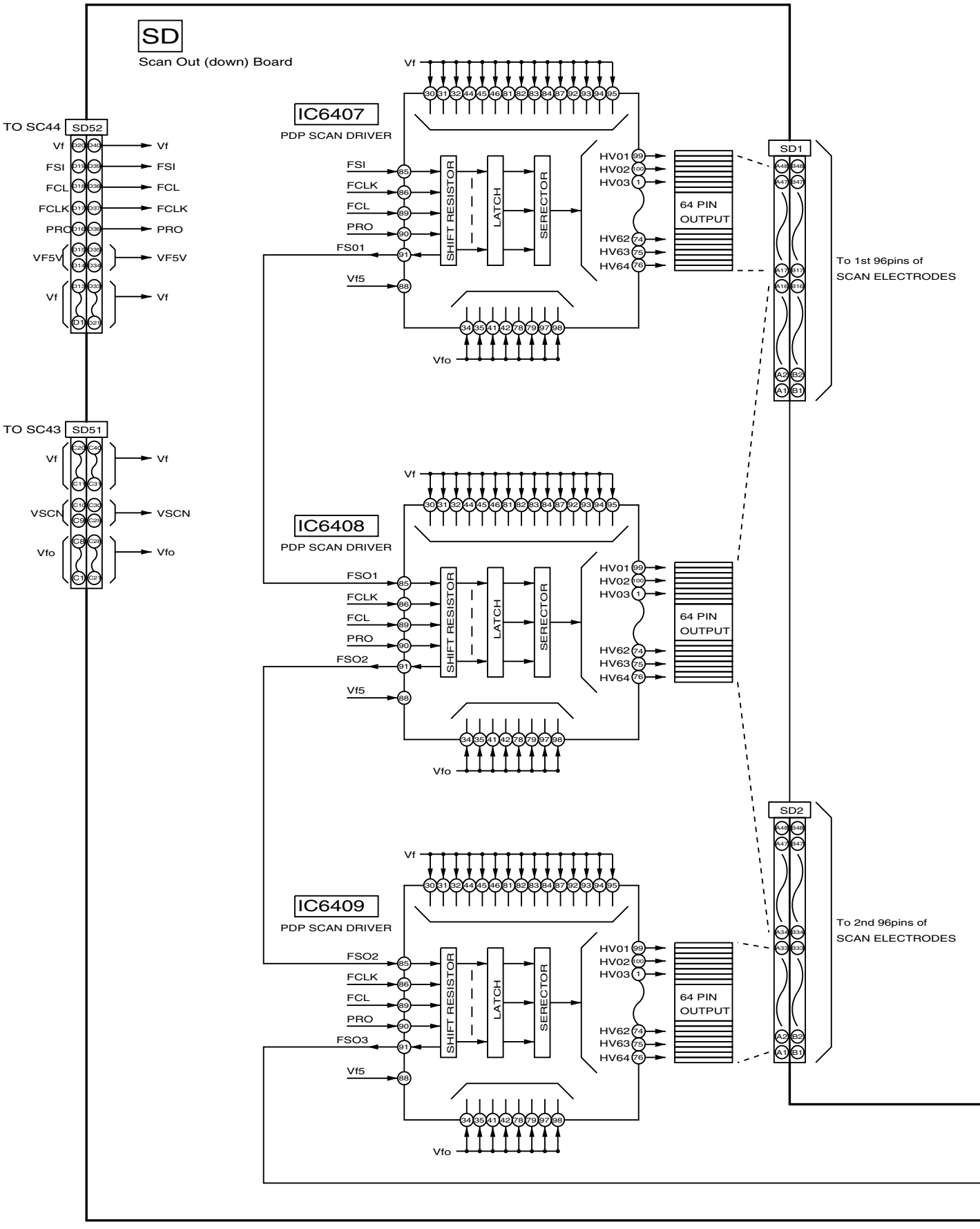
8 | 9 | 10 | 11 | 12



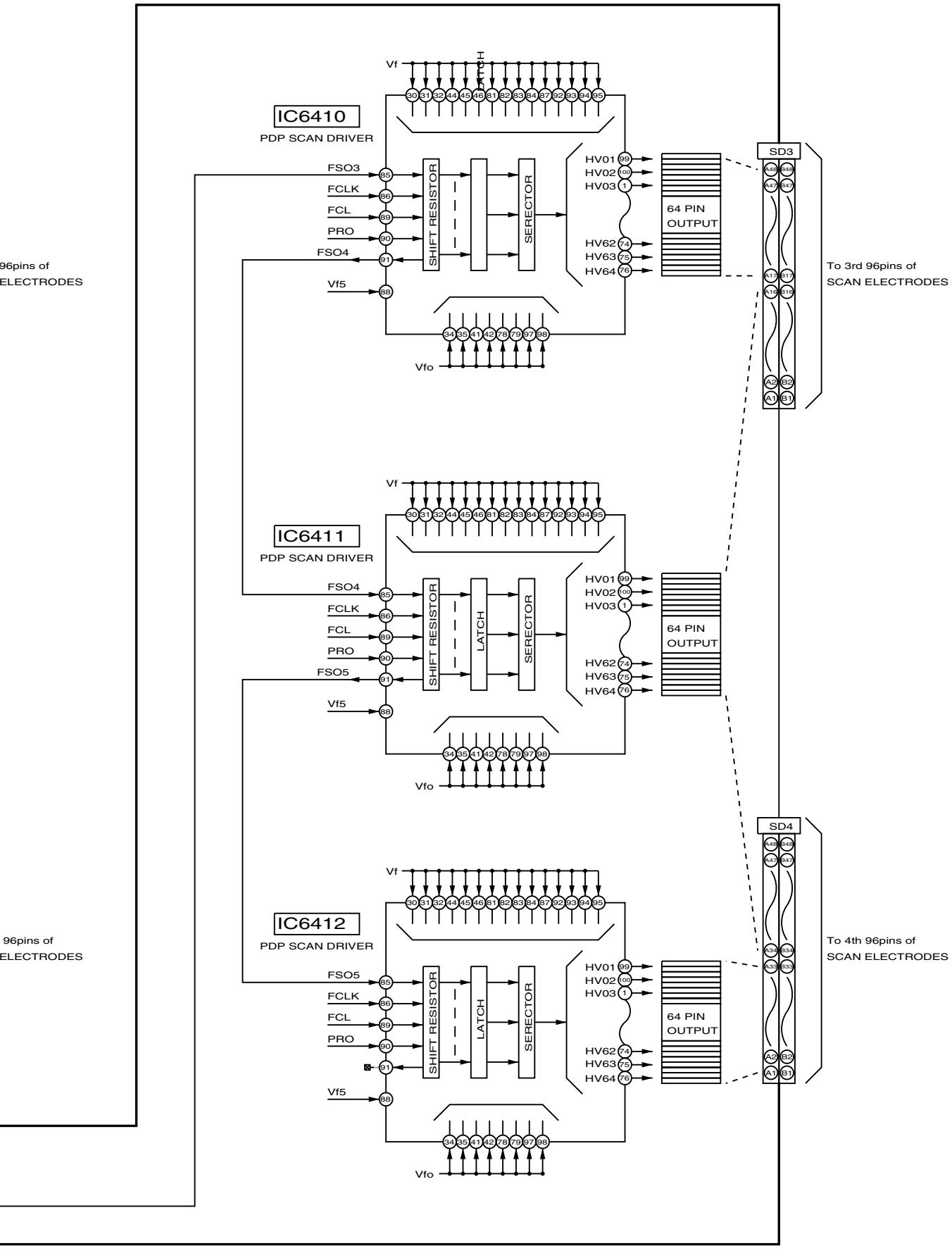
TH-42PHD6/TH-42PHW6
SU-BOARD (2 of 2) Schematic Diagram

12 13 14 15

14.54. SD-Board Block Diagram

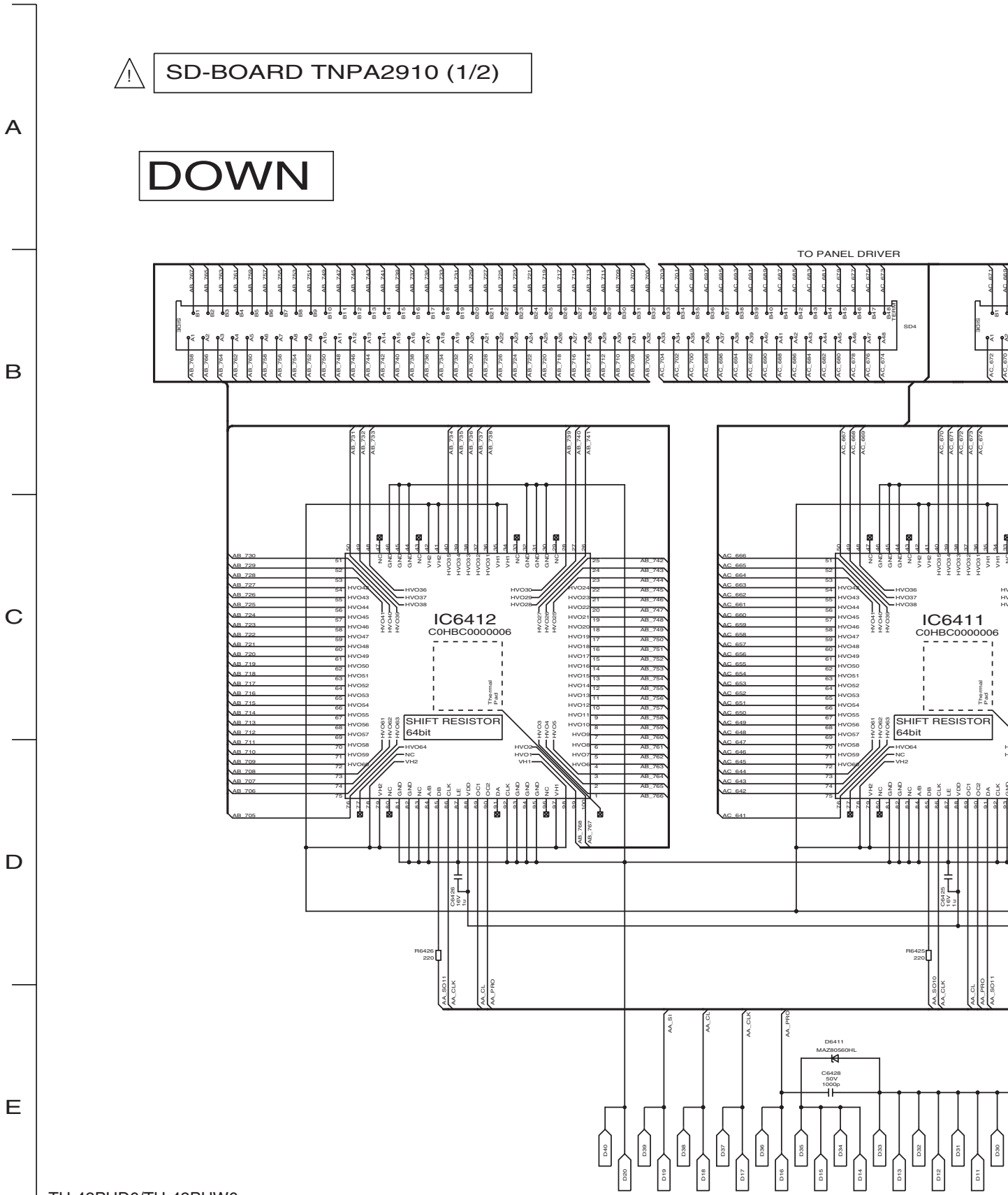


TH-42PHD6/TH-42PHW6
SD-BOARD Block Diagram

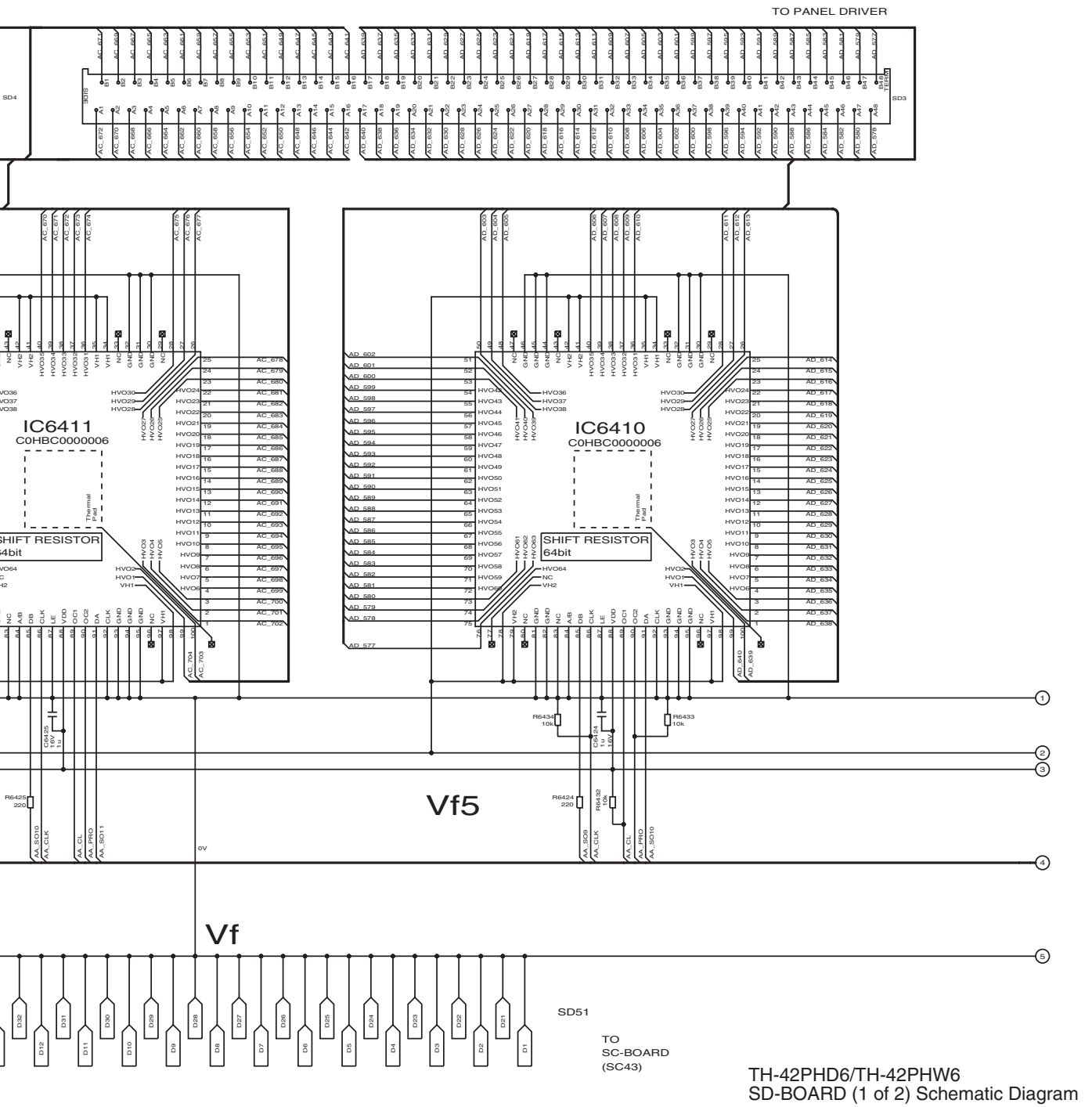


TH-42PHD6/TH-42PHW6
SD-BOARD Block Diagram

14.55. SD-Board (1 of 2) Schematic Diagram



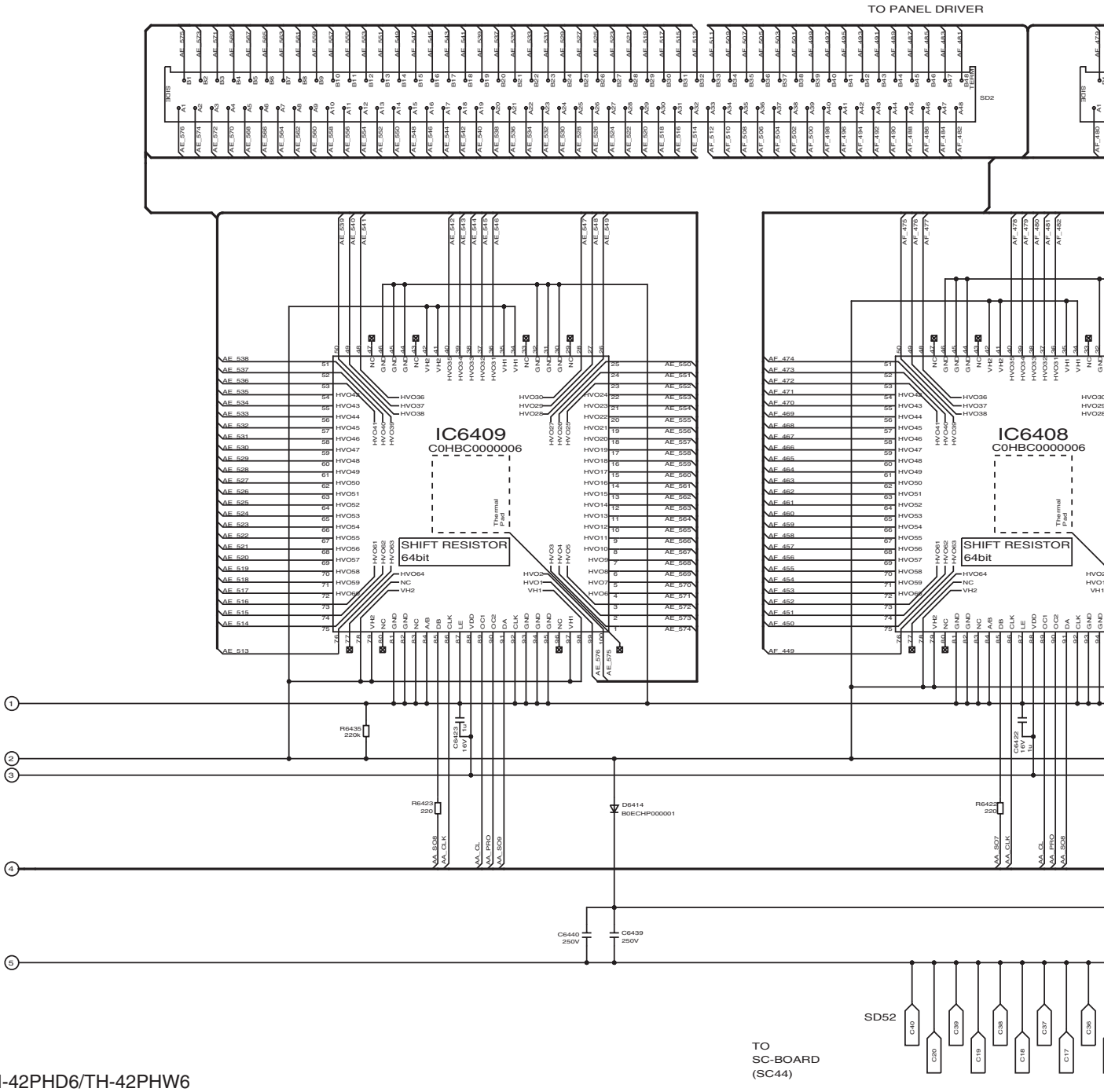
TH-42PHD6/TH-42PHW6
SD-BOARD (1 of 2) Schematic Diagram



TH-42PHD6/TH-42PHW6
SD-BOARD (1 of 2) Schematic Diagram

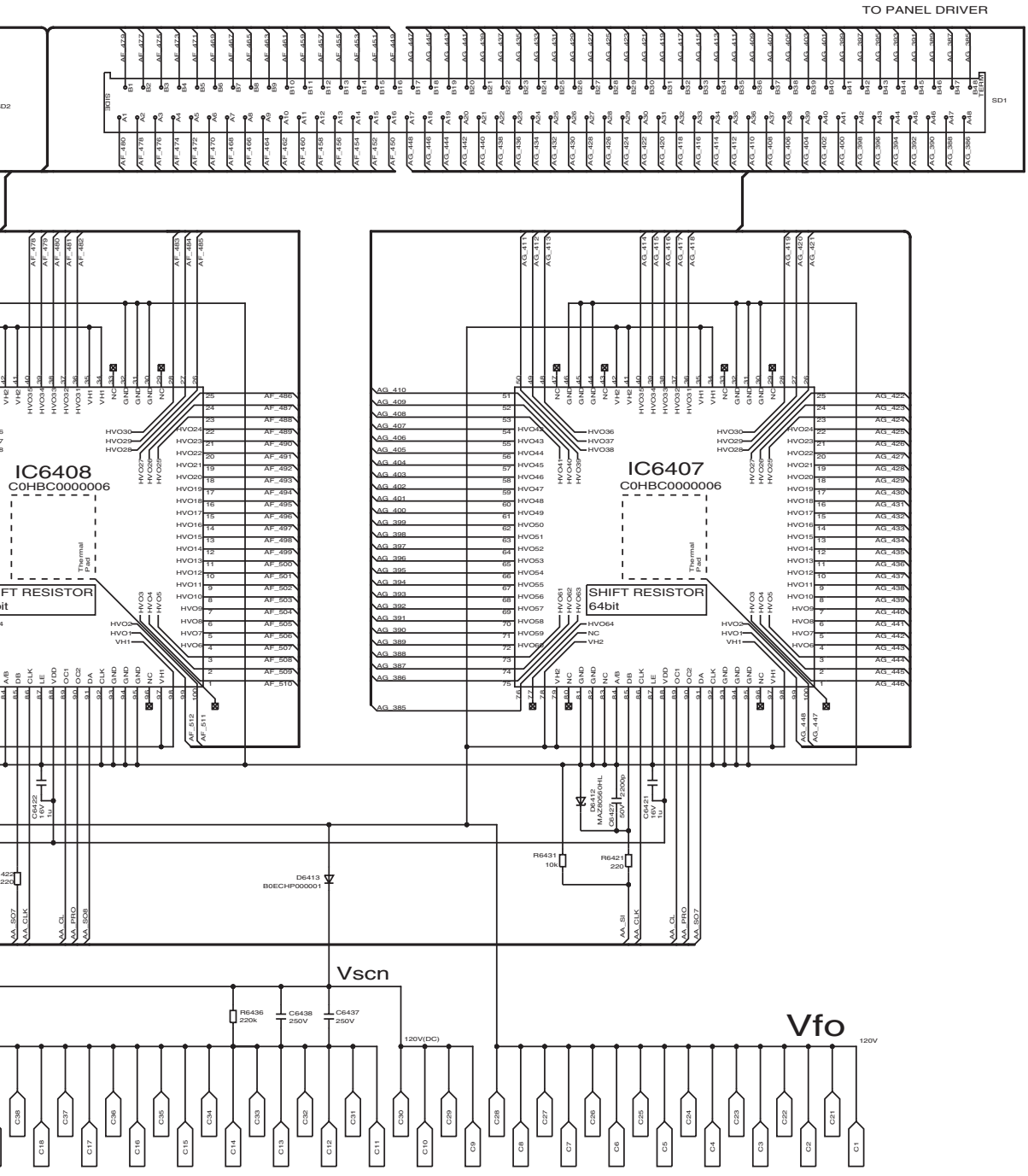
14.56. SD-Board (2 of 2) Schematic Diagram

⚠ SD-BOARD TNPA2910 (2/2)



TH-42PHD6/TH-42PHW6
SD-BOARD (2 of 2) Schematic Diagram

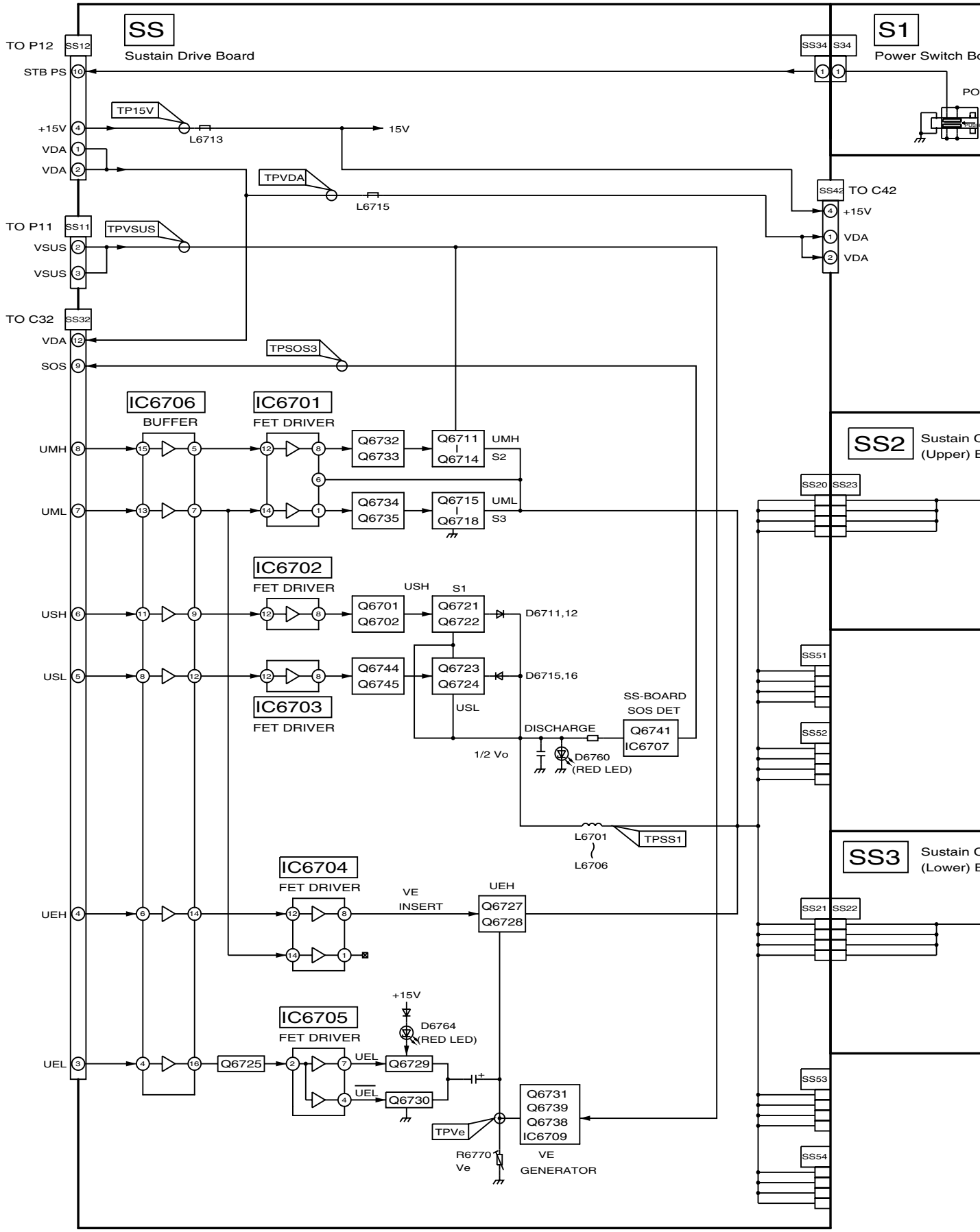
8 9 10 11 12



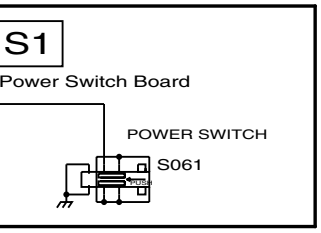
TH-42PHD6/TH-42PHW6 SD-BOARD (2 of 2) Schematic Diagram

12 13 14 15

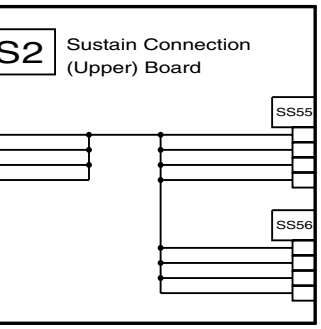
14.57. S1-Board, SS-Board, SS2-Board and SS3-Board Block Diagram

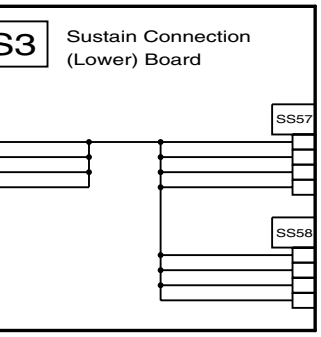


TH-42PHD6/TH-42PHW6
S1-BOARD, SS-BOARD, SS2-BOARD and SS3-BOARD Block Diagram



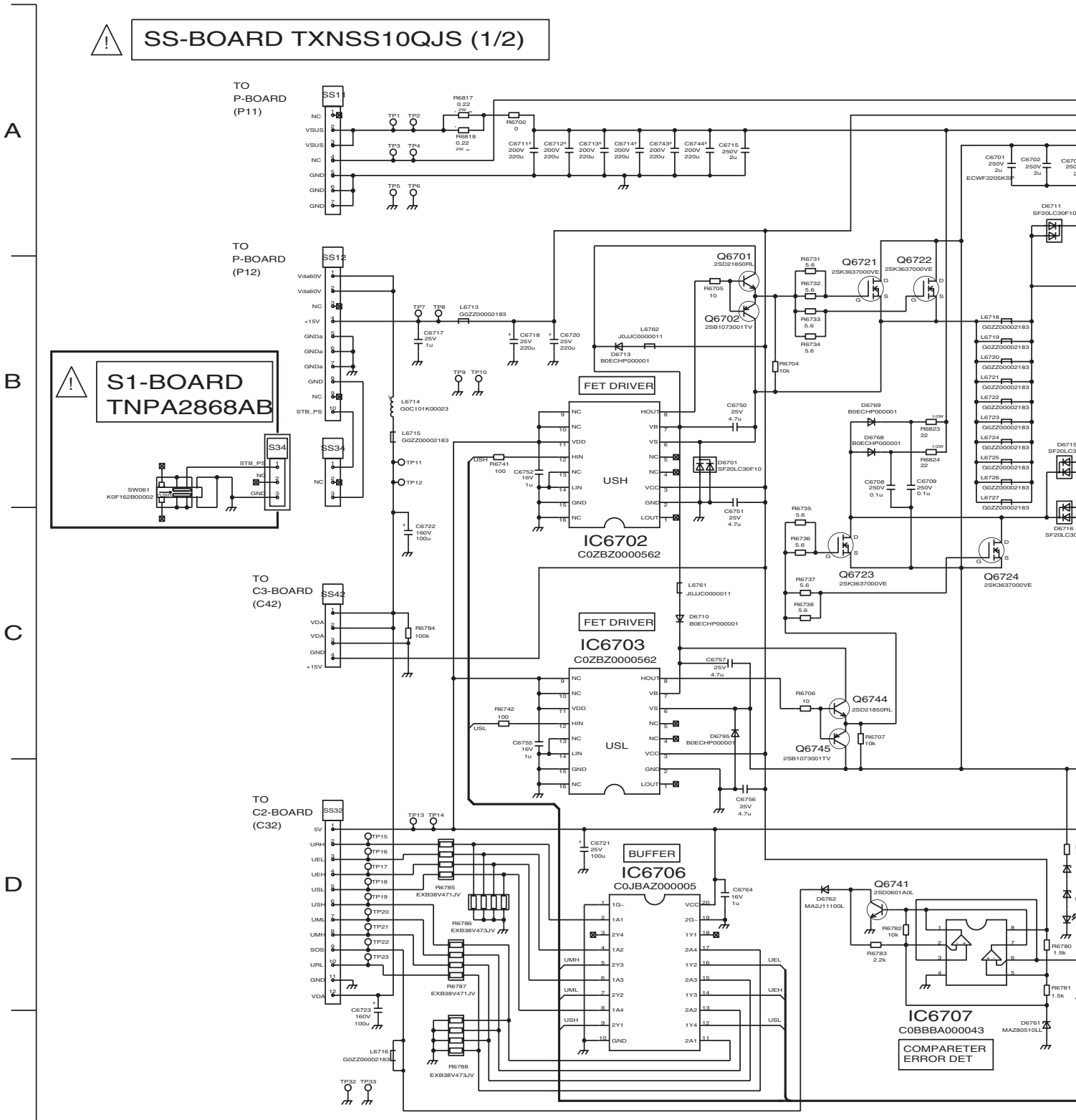
C42



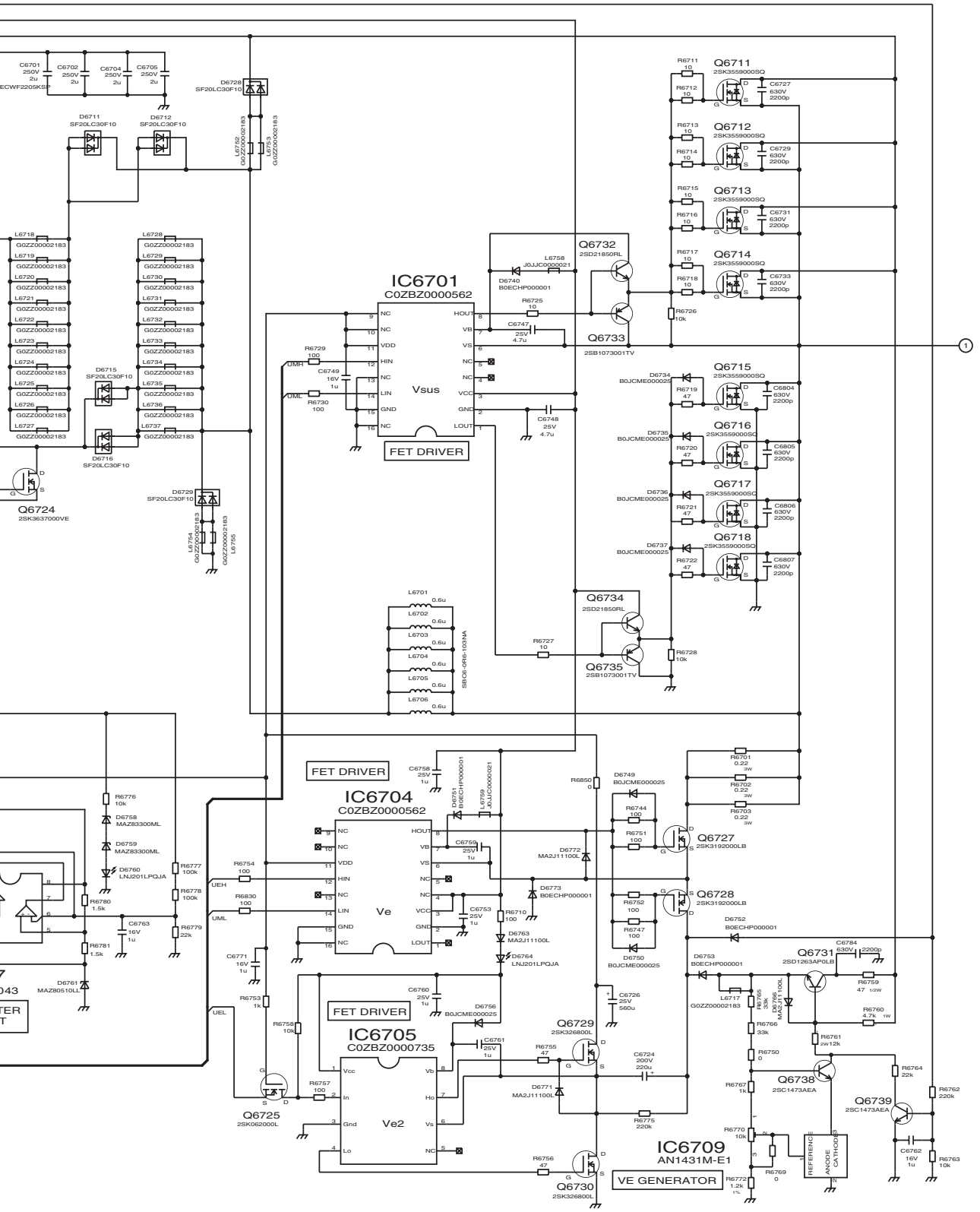


TH-42PHD6/TH-42PHW6
S1-BOARD, SS-BOARD, SS2-BOARD and SS3-BOARD Block Diagram

14.58. SS-Board (1 of 2) Schematic Diagram



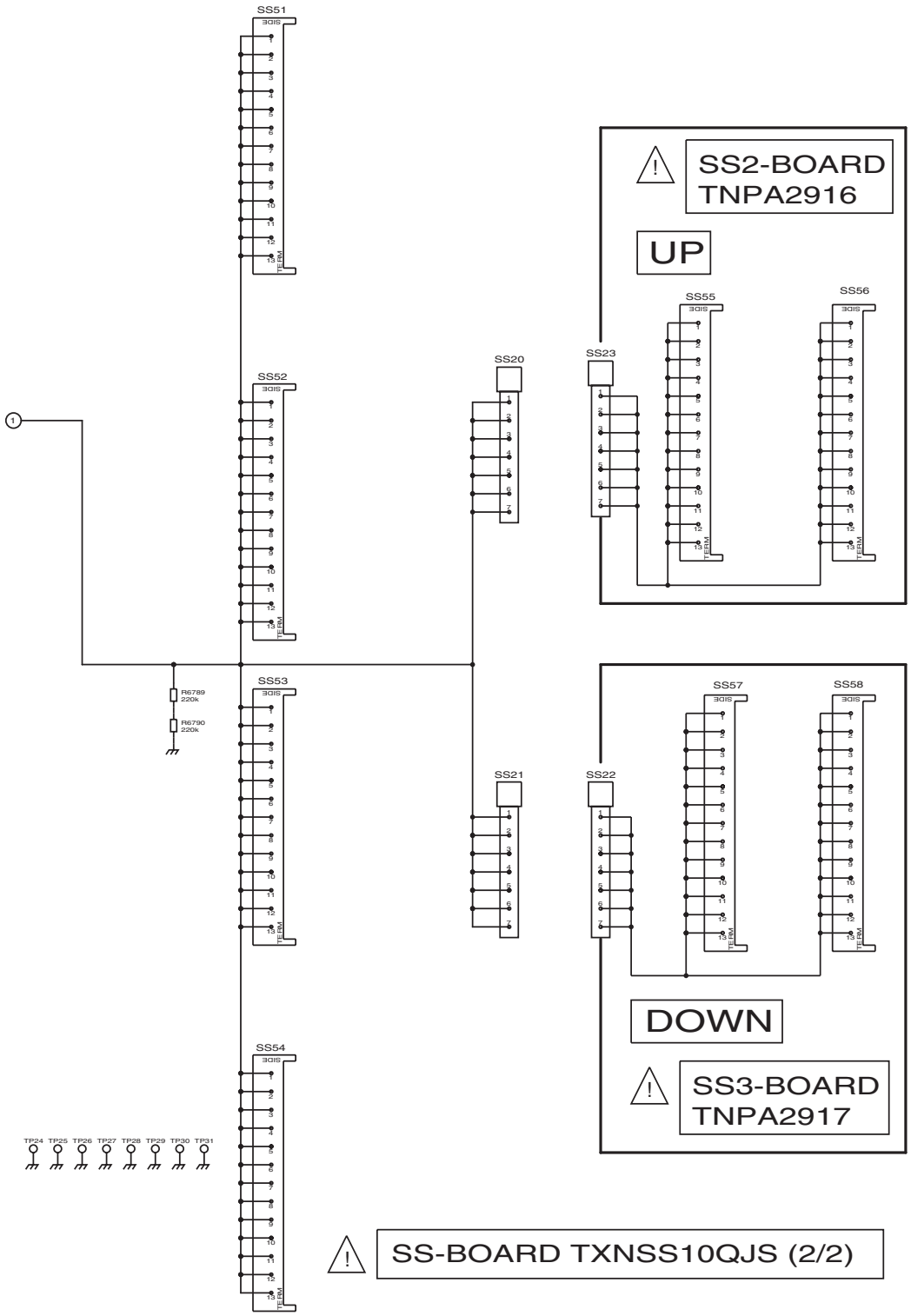
TH-42PHD6/TH-42PHW6
SS-BOARD (1 of 2) and S1-BOARD Schematic Diagram



TH-42PHD6/TH-42PHW6 SS-BOARD (1 of 2) and S1-BOARD Schematic Diagram

5 6 7 8

14.59. SS-Board (2 of 2) Schematic Diagram



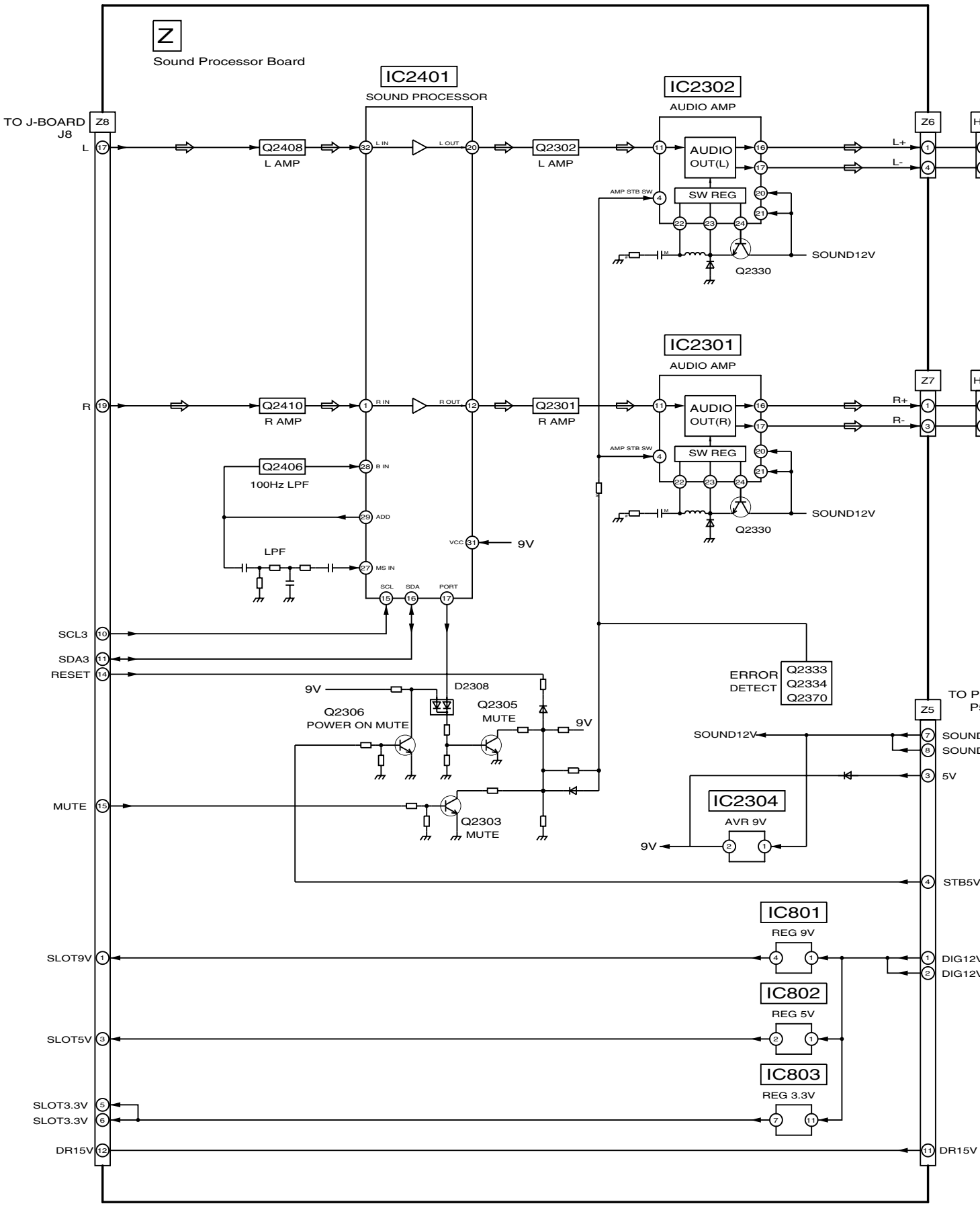
TH-42PHD6/TH-42PHW6
SS-BOARD (2 of 2), SS2-BOARD, and SS3-BOARD Schematic Diagram

8 | 9 | 10 | 11

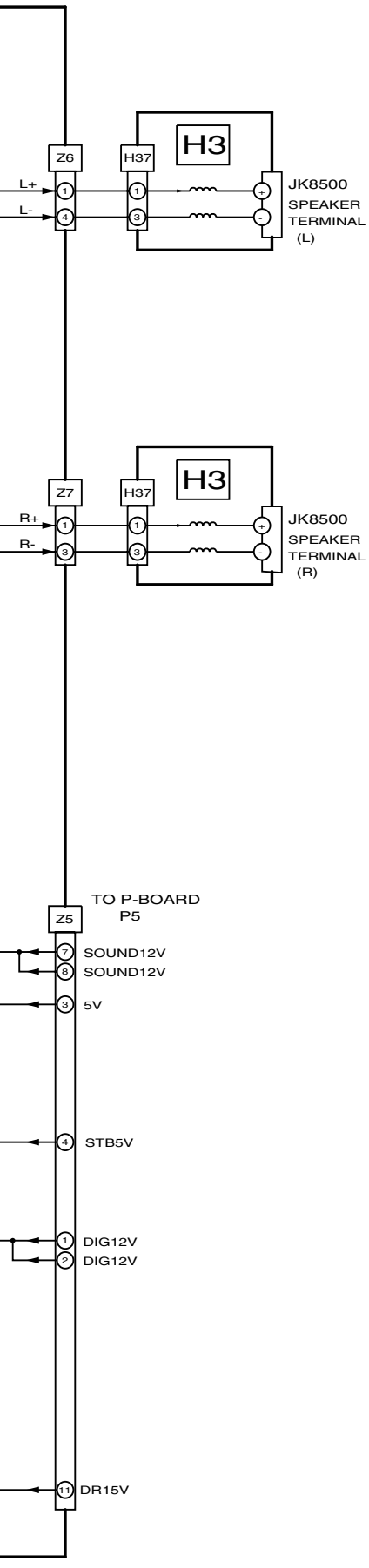
TH-42PHD6/TH-42PHW6
SS-BOARD (2 of 2), SS2-BOARD, and SS3-BOARD Schematic Diagram

12 13 14 15

14.60. Z-Board and H3-Board Block Diagram

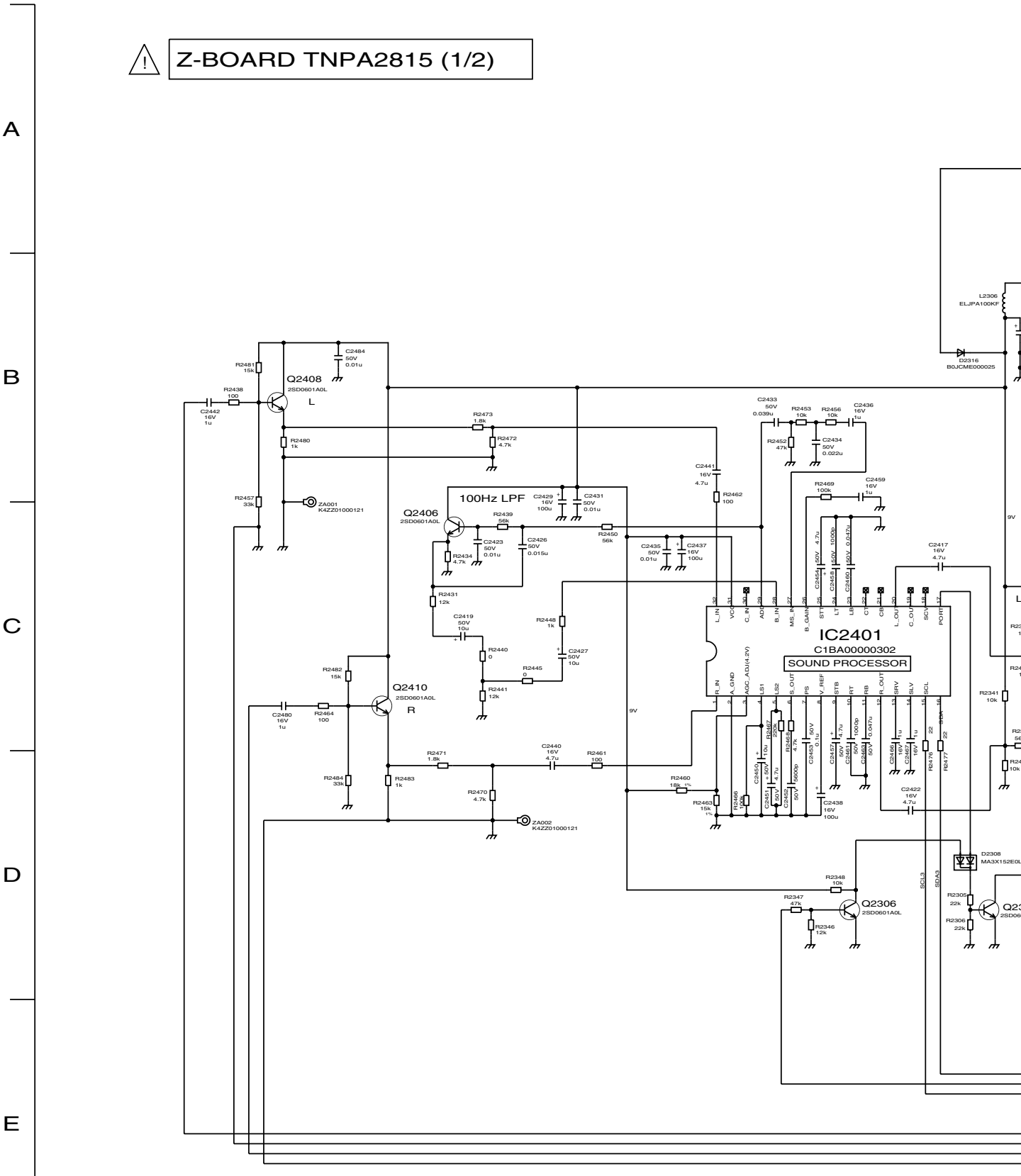


TH-42PHD6/TH-42PHW6
Z-BOARD and H3-BOARD Block Diagram

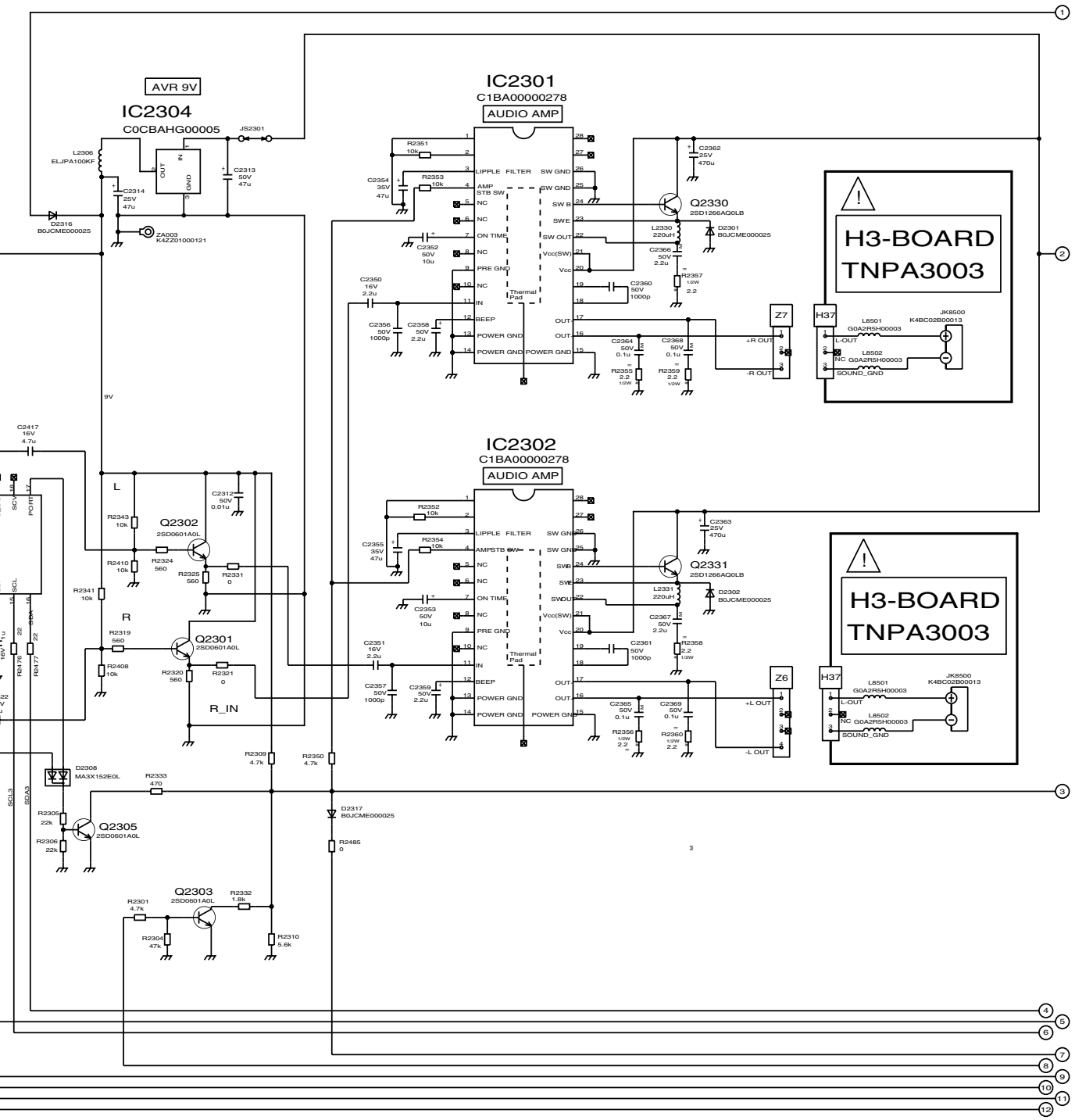


TH-42PHD6/TH-42PHW6
Z-BOARD and H3-BOARD Block Diagram

14.61. Z-Board (1 of 2) Schematic Diagram



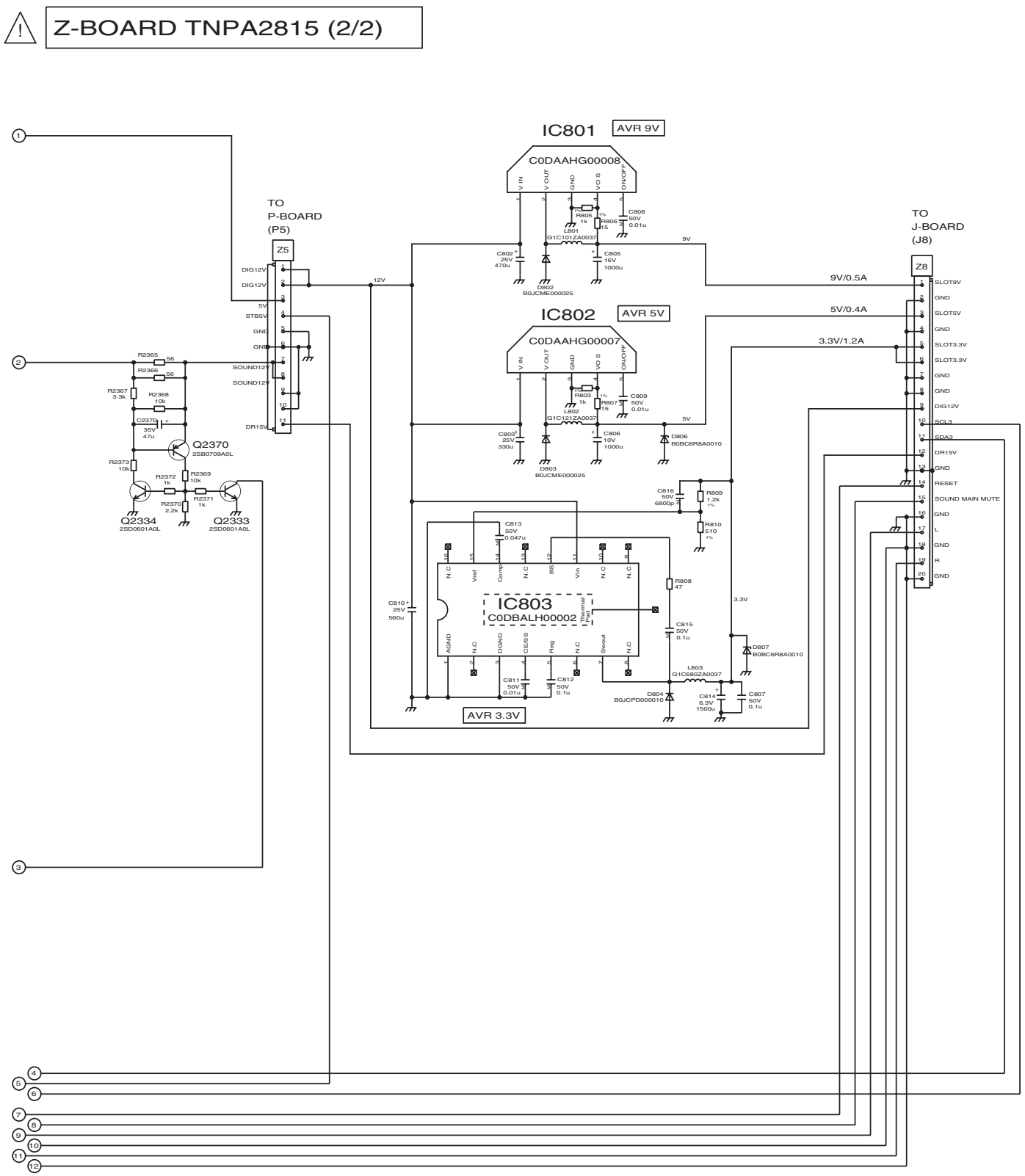
TH-42PHD6/TH-42PHW6
Z-BOARD (1 of 2) and H3-BOARD Schematic Diagram



TH-42PHD6/TH-42PHW6
Z-BOARD (1 of 2) and H3-BOARD Schematic Diagram

5 6 7 8

14.62. Z-Board (2 of 2) Schematic Diagram



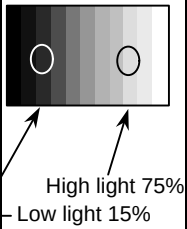
TH-42PHD6/TH-42PHW6
Z-BOARD (2 of 2) Schematic Diagram

8 | 9 | 10 | 11 | 12

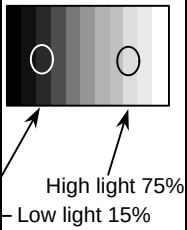

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	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RGB(PC) Gray Scale Pattern  		Picture: Normal White balance: **Cool** Aspect: 16:9 COMPONENT /RGB-IN: RGB	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: B Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: R Sub Bright 1	** Adjust at the dark room. 1) Set R,G and B cut off to " **80** ". 2) Set Gun off to "**5**". (Only green pixels can emit.) 3) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area. 4) Set Gun off to "**3**". (Only blue pixels can emit.) 5) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area. 6) Set Gun off to "**6**". (Only red pixels can emit.) 7) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	Component (525i, 525p, 625i, 720i or 1080i) Gray Scale Pattern  		Picture: Normal White balance: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to Component signal. 2) Repeat procedure 1) to 7) of RGB input signal.

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RGB(PC) Gray Scale Pattern  		Picture: Normal White balance: **Cool** Aspect: 16:9 COMPONENT /RGB-IN: RGB	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright 2 Chroma Control: Gun off RGB Sub Adjust: B Sub Bright 2 Chroma Control: Gun off RGB Sub Adjust: R Sub Bright 2	** Adjust at the dark room. 1) Press the SWAP button, change input to signal path. 2) Set R,G and B cut off to " 3) Set Gun off to "**5**". (Only green pixels can emit.) 4) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area. 5) Set Gun off to "**3**". (Only blue pixels can emit.) 6) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area. 7) Set Gun off to "**6**". (Only red pixels can emit.) 8) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	Component (525i, 525p, 625i, 720i or 1080i) Gray Scale Pattern  		Picture: Normal White balance: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to Component signal. 2) Repeat procedure 1) to 7) of RGB input signal.

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	NTSC Gray Scale Pattern  	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m_2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m_2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-01. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m_2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-01. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. Fig. -01
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PAL Gray Scale Pattern  	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-02. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-02. 9) Repeat procedure 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. Color Temp. / x / y Cool(Hi) / 0.276 / 0.276 Normal(Mid) / 0.288 / 0.296 Warm(Low) / 0.313 / 0.329 Fig. -02
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"